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Chrysanthemums

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Fred C.
Gloeckner
&
Company,
Incorporated
Seeds . . . Plants . . . Bulbs
From World Wide Sources
15 East 26th St. New York City

Plan Now to Grow Better Chrysanthemums

In these troubled and uncertain days, no one is in a position to predict with any degree of accuracy what the future holds in store for us. We do know that there will be more competition regardless which way the trend swings.

We are faced with the facts that we must reduce waste and increase efficiency. This can only be accomplished by keeping abreast of the times and employing proper business management.

To cope with competition and increase our efficiency we suggest planned planting of your 1943 Chrysanthemum crop. The correct varieties, quantities of each variety to grow, productiveness, cultural requirements, color, market requirements, and blooming time all have to be considered in planning a successful attack on your 'mum problems.

Many florists are planting rooted cuttings directly into permanent locations. This not only reduces several handlings and production costs, but also produces a better quality bloom. We fully realize that it is often an impossibility for all to treat their Chrysanthemums this way. However, we have found that young, soft plants are superior to hard woody plants.

The growers who are making a profit out of this crop have found that it is cheaper to purchase all their rooted cuttings each year rather than just a portion. The specialist is able to deliver the cuttings at the approximate desired date, free from insects, properly labelled and packed. He employs trained people who check the stock plants so that wilt is at a minimum, reselect the varieties to improve type and color, and who see that all operations are done at the proper time.

To further aid you in growing better Chrysanthemums we have included various cultural pointers. It is just a part of the *Gloeckner* service to keep you advised.

We will gladly help plan your requirements for the coming year.

For important information on pot plant culture, shading and delayed flowering see pages 20 to 30.

SCHEDULE OF RATES

Twenty-five of a variety is the minimum that can be supplied; orders for more than 25 of a variety must be in multiples of 25.

The prices per 100 and per 1,000 appear opposite each variety in the catalogue.

If order totals less than 1,000, all items less than 250 will be billed at the 100 rate; 250 or more of a variety always take the 1,000 rate.

Cultural Pointers

SOIL

Chrysanthemums will grow well in a wide range of soil types but a fibrous silt loam is preferred. Blue grass sod, to which super phosphate has been added, has given excellent results.

Many growers plant chrysanthemums in old soil without sterilizing and expect good results. Many diseases and too much fertility are often found in old soil. Verticillium wilt (Seidewitz disease) is carried over in the old soil. If cultured cuttings are planted into old soil many varieties will become affected with wilt. The only reliable method is to sterilize with steam so that the soil is heated to 180 to 200 degrees F. for at least one hour. If the soil is high in nitrate nitrogen we suggest you apply two inches of alfalfa or red clover hay into the soil in place of manure before sterilizing. This coarse fiber will reduce the nitrates and also adds humus to the soil. After sterilizing leach the soil with large quantities of water to reduce the available nutrients.

Evidence shows that the soil reaction should be slightly acid pH 6.5, although in many instances a neutral medium does very well. If your soil tests slightly alkaline apply $\frac{1}{2}$ to one pound of agricultural sulfur per 100 square feet of area. However, if your soil is acid apply 3 to 5 pounds of agricultural ground limestone per 100 square feet of area.

Proper drainage and proper aeration of the soil are very vital to good growth. It should be constantly watched not only in ground beds but also in raised benches.

FERTILIZER

When using fresh soil, apply 3 to 5 lbs. of super phosphate per 100 square feet of area plus a liberal application of manure before planting. A mulch of peat rotted manure or alfalfa or red clover hay applied two to three weeks after planting is helpful. Six weeks after planting and every three weeks until color shows an application of ammonium sulfate at the rate of 1 lb. per 100 square feet of area or 2 lbs. of a complete fertilizer, such as Electra, is advisable. Remember that the plant is the best guide as to fertilizer requirements.

When using sterilized soil the best recommendations to follow would be to analyze your soil from time to time. We have found that when the following nutrient levels are kept, good crops are the result. Nitrate nitrogen should be between 10 to 25 parts per million; phosphorus from 2 to 5 parts per million and potassium 20 to 40 parts per million.

WATERING

When planting rooted cuttings directly into their permanent locations it is essential to water thoroughly to set the soil around the plant roots. We suggest double watering again when the soil gets on the dry side. By this time the plants are established and regular watering should be followed. Keep humidity in the house by wetting down bench and walks.

The knowledge of proper watering is essential to success. Chrysanthemums produce extremely heavy foliage and a great deal of water is required at the roots, and under ordinary conditions of bench culture overwatering would be difficult. When grown in beds more care should be exercised in watering.

PINCHING

Pinching not only regulates the number of stems but also influences the petallage of varieties that tend to be single; regulates the neckiness; eliminates the appearance of crown buds; and regulates the spray formation on pompons or singles.

The last pinching dates given after each variety will help you grow that variety to excellency. Remember that pinching is just one cultural factor and will only function when all other cultural points are carried out properly.

Diseases and Their Control

DISEASE	SYMPTOMS	CONTROL
FOLIAR NEMATODE	Leaves first turn black or chocolate brown and leathery, then shrivel up, become brittle. Begins at base of stem and may work up to the flowers.	Strip off all the leaves from the lower 6 to 8 inches of all plants as soon as possible. Spray with double strength nicofume plus Bordeaux Mixture.
MILDEW	Whitish powdery growth on upper surface of leaves.	Spray at regular weekly intervals with a good wettable sulfur, 1 lb. per 100 gallons of water to which a good commercial spreader has been added. Dusting with a good dusting sulfur will give equally good results.
ROOT KNOT NEMATODE (Eelworm)	The nematodes or eelworms bore into the roots of the plants and cause knots or galls to develop on the root systems. As a result the plants are weak, yellowish and stunted in growth.	Soil sterilization, preferably with steam, is very effective in eliminating the root knot nematodes from the soil.
RUST	Chocolate brown powdery pustules on the lower surface of the leaves.	Same as for Mildew.
SEPTORIA LEAF SPOT (Leaf Blight)	Distinct circular spots on the leaves. These are greyish brown in color and become brittle in the center. Affected leaves may turn yellow and die. More prevalent out of doors. Some varieties are more susceptible than others. Sea Gull is very susceptible.	Spray with 4-4-50 Bordeaux Mixture plus a good commercial spreader about 3 or 4 days after planting and continue at regular weekly intervals until about the middle of July.
VERTICILLIUM WILT (Seidewitz Disease)	Margins of leaves turn yellow and eventually wilt or dry up. This begins at base of plant and works up the stems. May affect one side of a stem or plant more than the other. No distinct spots. Varieties vary in resistance to this disease.	Plant only disease free cuttings in soil which has been steam sterilized.

Insects and Their Control

INSECT	CONTROL	REMARKS
APHIDS	Nicofume Liquid. Nicofume Fumigation.	Use pressure fumigators.
CLIMBING CUT WORMS	Arsenate of lead spray or dust. Poison bran bait.	1½ lbs. to 50 gal. water plus ½ lb. caseinate spreader. Poison Bait Formula: Wheat bran 5 lbs. Enough water to moisten mash. Paris Green 4 ozs. Molasses 1 pint. One finely chopped lemon.
LEAF ROLLERS (Leaf Tier)	Arsenate of lead spray when plants are young. Tarter Emetic. Multicide, Red Arrow and Hitox.	1½ lbs. to 50 gal. water plus ½ lb. caseinate spreader. 2 lbs. Tarter Emetic. 4 lbs. Brown sugar. 50 gal. water.
MEALY BUGS	Calcium cyanide fumigation. Greenhouse Volck and Nicofume. Lethane 440.	With caution. Be very careful, will burn when temperature is high. With caution.
MIDGE	Calcium cyanide fumigation. Nicofume fumigation. Loro. Tobacco dust.	Must be done every evening for 21 days. With caution. Spray every 3 days for 3 weeks then every week. Must be applied frequently.
LACE BUGS	Multicide, Red Arrow, Hitox.	Any good pyrethrum insecticide.
RED SPIDERS	Syringe with water. Loro. Selocide. NNOR, L333.	If available.
SYMPHILLIDS ⁽¹⁾ (Greenhouse Centipeds)	Grown on raised benches.	Steam sterilize all soil.
TARNISH PLANT BUGS ⁽²⁾	Hitox, Multicide, Red Arrow. Nicofume fumigation.	Control by contact only.
THRIPS	Tarter Emetic. Nicofume liquid plus soap. Loro.	1 lb. Tarter emetic. 4 lbs. Brown sugar. 50 gal. of water. Mix tarter emetic in warm water the night before using. Will cause injury on some Varieties.
MITES	NNOR, Hitox. Nicotine liquid plus soap.	

- (1) Symphillids are small white creatures about 1/8 to 3/16 inches long which feed on the small white roots. Plants affected will not grow to any height.
- (2) Tarnish plant bugs in severe cases will cause blindness. Often times the flowers are one sided and the top of the spray will tip to one side. This insect is about 1/4 inch long and very difficult to locate. This insect is very injurious to mums planted out of doors without any aster cloth protection.

Soil Sterilization with Steam

Today we are more than ever interested in economical operations. Sterilizing soil is definitely a money and labor saving method in preparing soils. There are other methods used to sterilize soil but we feel that steam is the most practical.

Soil sterilization is a protection against certain soil borne diseases, such as Verticillium wilt (Seidewitz disease) and root nematodes. Sterilizing by steam changes the physical properties by making the soil granular.

If the soil is high in nitrate, we suggest you apply two inches of alfalfa or red clover hay into the soil in place of manure, before sterilizing. Old greenhouse soils used for many years are usually high in nitrate nitrogen and are benefited by leaching, after the soil is steamed.

USEFUL HINTS

- 1—Apply manure or red clover hay before sterilizing. Till the soil thoroughly, so that the steam may be uniformly distributed.
- 2—Have the soil moderately moist, slightly drier than a good potting soil.
- 3—Use three inches tile, down spouting or pipe; two lines in a three and one-half foot bench. Ridge the soil to the center of the bench directly over the lines, covering with tarpaulin, canvas or builders' felt.
- 4—High pressure steam is not necessary. Figure that you can sterilize approximately one square yard of soil per boiler horse power.
- 5—Do not try to sterilize more than 50 feet of bench in one direction. The longer the distance, the longer time required to heat the desired temperature.
- 6—Suitable thermometers should be available for determining temperatures at various depths.
- 7—Cover the sides of the benches so that the entire bench and contents are heated to 180°F.
- 8—No air should enter the pipe or tile with the steam as cold air causes condensation of the steam.
- 9—Remove the covering one hour after the steam has been cut. This allows the excess moisture to pass from the soil as vapor.
- 10—Steam sterilization granulates the soil particles, making for a more porous soil, allowing air and moisture to pass through freely.
- 11—Steam sterilization usually will increase the soluble salts, nitrate nitrogen and ammonia nitrogen over a period of several weeks, although this is not always the case.
- 12—Leach heavily immediately after sterilizing to reduce excess fertility.
- 13—Be very careful so as not to contaminate sterilized soils by placing tools, flats, etc., on sterilized soil.
- 14—The cost of steam sterilization will average 1-1/2 cents per square foot of bench area, as compared with 5 cents per square foot when soil is changed.

We will at all times endeavor to serve you to the very best of our ability. If you have any questions, cultural problems, etc., from time to time, please feel free to call upon us. If we are able to help you we shall be more than repaid.

Novelty Chrysanthemums



Spun Gold

GOLDEN SURPRISE

A bright sulphur yellow pompon shading to golden yellow. Blooms on well formed sprays with rigid pedicels. The variety is of extremely easy culture, and possesses excellent glossy green foliage which is disease resistant. Will give very good production of attractive blooms having good form and substance. Matures November 20th to 25th when yellow pompons are in great demand.

CASSANDRA

A medium sized pompon having a fully rounded form and excellent substance. Strong stems carrying rigid well formed sprays. Foliage medium size and healthy. Produces bright orange bronze blooms with a crispy substance. The color does not fade or go dull as the flower matures. This variety bunches well and is a good shipper. It responds well to shading and is an excellent variety for cloth-house. Will produce an early crop of flowers without fading. Matures normally November 5th to 10th.

NAVAHO

Designed for a cloth house, medium, decorative, red pompon. It blooms normally November 5th. Color is deep crimson; reddish bronze under early shading. Responds well to shading and fills a great need for a cloth house variety in its color range. Growth is strong and uniform. The 2½ inch flowers are well spaced on fine sprays. Stems are dark and hard; foliage is glossy, deep green. Equally valuable on raised benches or ground beds. Plant June 1-10. Final pinch July 10-15. C. S. A. Silver Medal at Boston in 1941.

SPUN GOLD

This variety has been on trial for several years under extensive plantings. It ranks among the highest producing pompons we know of. Spun Gold is a large decorative pompon; deep lemon yellow in color: It blooms Dec. 15th and later. Because of good substance it ships and keeps well. The stem is medium and strong. The flowers are well spaced on rigid sprays. Spun Gold has proven equally dependable under raised bench or ground bed culture. We believe it to be another bread-and-butter variety in the same late group as Snow. Plant June 15-20. Final pinch Aug. 5-10.

SEAFOAM

Pure white large pompon having a full center and well rounded form. The blooms are produced on rigid and well spaced sprays. A free and easy grower with an unusually high production. Responds well to shading and well suited to cloth-house culture. Blooms November 20th to 25th. This variety produces freely high quality white pompons at a period when they are badly needed.

GOLD IMPERIAL

A quality Pompon ready to cut about November 20th. The large, perfectly-formed golden-yellow blossoms show a deeper yellow-orange center—a touch of distinction the market welcomes. The plant of a vigorous upright habit, foliage clean and healthy, good branching sprays, substance and keeping qualities excellent in every respect.

Awarded C. S. A. Silver Medal, Boston 1940; First Prize Intermediate Class, Yellow, Boston 1941.



Navaho

ALL VARIETIES LISTED ON THIS PAGE

\$15.00 per 100, \$125.00 per 1000

Novelty Chrysanthemums

ANACONDA

A large flowered commercial incurved possessing excellent substance and color. It is a free and easy grower with vigorous habit and resistance to disease. Forms clean strong medium tall stems with beautiful dark green medium sized foliage. Produces large blooms uniformly from any bud. Flowers do not shatter nor bruise easily from shipping or handling. The color is coppery red with golden bronze reverse, a shade very similar to the old variety David Roy. Date of maturity November 10th to November 15th. This variety will appeal to both the retailer and to the grower. It will produce two good blooms to the plant with unusual uniformity.

PIXIE

Pixie is a large, well rounded button pompon, 1½ inches in diameter. Its color is deep golden yellow. The normal blooming date is Nov. 10th. Pixie has proven very valuable for early shading. Substance is outstandingly good, making the shipping and keeping qualities excellent. The plant is productive; the flowers are produced on stiff, wiry stems with good spray formations. This variety will respond well under a wide diversity of cultures. Plant June 5-10. Final pinch July 10-15.

ENCHANTRESS

Enchantress is a beautiful deep pink anemone. As a disbud its blooms are 6 inches in diameter; as a disbudded spray it reaches 4-5 inches. The cushion develops fast and well, giving the variety a season of Dec. 5th and later, just a few days earlier than that of the well known variety Dark Pink Supreme. Attains a medium height with uniformly strong stems. Growers of late Chrysanthemums will find Enchantress a useful addition to their list of varieties. Plant June 15-20. Final pinch Aug. 1-5.

THREE VALENCIA FAMILY ADDITIONS

GOLDEN JANE—A brilliant golden intensification of the original buff bronze Jane. Much brighter and more livid in color.

APRICOT VALENCIA—An entirely new and beautiful deep apricot buff sport from Dark Pink Valencia. Ranks apricot bronze as Valencia ranks pink.

RED VALENCIA—A sport from Valencia with a very versatile new color. It is a soft, pleasing tint of Brazil red.

INDIANAPOLIS YELLOW

This lemon yellow sport from Indianapolis Pink is another valuable addition to the very popular Indianapolis family. We think this is the best yellow mum for its specific flowering date.

(Sold out for 1943)



Anaconda

CARILLON

Carillon is a beautifully formed pink spray single. The color is a brilliant Valencia pink. Its season, Dec. 20 and later, further adds to the rapidly growing list of valuable late varieties. Form and substance are good with the flowers spaced well on rigid sprays. Growth is fast, unusually free with no blind or vegetative tendencies. Production on Carillon is extremely high and uniform. It is versatile enough to stand relatively late planting if necessary on either raised benches or ground beds. Plant June 20-25. Final pinch Aug. 5-10.

ALL VARIETIES LISTED ON THIS PAGE

\$15.00 per 100, \$125.00 per 1000

Novelty Chrysanthemums

NEW VARIETIES OF A FEW YEARS AGO. DON'T FAIL TO ADD THESE TO YOUR LIST.

YELLOW SNOW

A bright Pernet yellow sport from Snow. The form and growth habit are identical with the original. Because of its season, December 30th, heavy production and excellent color this variety will prove to be one of the most valuable additions to the late pompons.

CAMEO

An ivory pompon of unusual size and substance that blooms the same time as Yuletide, Cordova and Silver Star. A strong persistent grower possessing a rigid and well spread spray. The growth habit is superior to any worth while variety in its color class and blooming season. Matures December 5th.

ROSALIND

A pink single that might be described as a Pink Yukon. The color is a clean medium pink. The growth habit is excellent; a very free grower; medium sized stem and foliage; it flowers at a time of the year when pink is scarce. Matures December 20th.

ORANGE BELLE

Small flowered pompon with good form and substance. Color reddish orange rust. Good spray formation on wiry stems which attain a good length. This variety is outstanding in growth and the attractiveness of its clean stems and foliage. Matures in late November and early December.

Above Varieties — \$8.00 per 100, \$75.00 per 1000

YELLOW HAMMER

Bright golden yellow pompon blooming October 20. Blooms size of Pink Dot. Medium height and produces heavily, making good sprays. Recommended for shading.

\$12.00 per 100, \$100.00 per 1000

AURORA

A pink single that will bloom December 15. The blooms are three inches in diameter, bright pink with yellow disc. Excellent growth habit and the production is good.

\$12.00 per 100, \$100.00 per 1000

VIBRANT

A large decorative pompon. Matures about December 20th. Color is a brilliant deep lemon yellow. Flowers attain a diameter of about 2½"-3" when fully developed. A vigorous grower. Very productive. Well suited to either raised bench or ground bed culture. Does not come blind.

\$4.50 per 100, \$40.00 per 1000

INDIANAPOLIS WHITE

This clear white sport from Indianapolis Pink has all the foliage and growth qualities of the parent variety. An excellent habit and form for a white mum. A quality mum for November 10th flowering.

\$4.50 per 100, \$40.00 per 1000

YELLOW BUSHNELL

Pernet yellow sport from Rev. Horace Bushnell. Produces well formed sprays. Not particular as to cultural requirements. Flowers November 8.

\$4.50 per 100, \$40.00 per 1000

APRICON

An intermediate, apricot yellow pompon possessing excellent form and substance. Matures November 25th on rigid stems of medium height when planted in late June and pinched about August 10. Flowers are 2" in diameter.

\$4.50 per 100, \$40.00 per 1000

FOR SHADING INFORMATION AND DELAYED FLOWERING
SEE PAGES 20 TO 27



Large Flowering Varieties

YELLOW

Name and Description	Last Pinch	Height	Select Bud	Matures	Price per	
					100	1000
Gold Lode. Light golden yellow. Reflexed.	June 20	Med.	Aug. 25	Oct. 1	\$3.50	\$32.50
Golden October. Deep lemon yellow. Semi-incurved	June 25	Med.	Aug. 25	Oct. 10	3.50	32.50
Celestra. Lemon yellow. Incurved.	June 25	Med.	Ter. Bud	Oct. 15	3.50	32.50
Mrs. H. E. Kidder. Deep lemon yellow. Incurved.	June 30	Med.	Aug. 25	Oct. 20	3.50	32.50
Yellow Ambassador. Pale lemon yellow. Incurved. Sport from Ambassador	July 5	Med.	Ter. Bud	Oct. 23	3.50	32.50
Blazing Gold. Deep golden yellow. Incurved.	July 5	Med.	Ter. Bud	Oct. 25	3.50	32.50
Sunglow. Golden yellow. Incurved.	July 5	Med.	Aug. 25	Oct. 25	3.50	32.50
Corona. Deep golden yellow. Incurved.	July 5	Tall	Ter Bud	Oct. 25	3.50	32.50
Citronella. Light buff yellow. Incurved.	July 5	Short	Aug. 31	Oct. 28	3.50	32.50
Saratoga. Bright golden yellow. Incurved.	July 10	Med.	Ter. Bud	Nov. 1	4.50	40.00
Golden Glory. Golden yellow. Semi-incurved.	July 10	Short	Aug. 25	Nov. 1	3.50	32.50
Good News. Deep lemon yellow. Incurved. Sport from Detroit News	July 10	Med.	Aug. 30	Nov. 1	3.50	32.50
Indianapolis Yellow. SOLD OUT	July 15	Med.	Ter. Bud	Nov. 8	15.00	125.00
Cardonia. Deep golden yellow. Incurved.	July 15	Med.	Sept. 5	Nov. 10	3.50	32.50
Penrod. Golden yellow. Incurved.	July 15	Med.	Ter. Bud	Nov. 10	8.00	75.00
Whittier. Lemon yellow. Incurved.	July 15	Med.	Sept. 15	Nov. 13	3.50	32.50
Yellow Monument. Pale lemon yellow. Incurved. Sport from Monument	July 20	Med.	Sept. 10	Nov. 15	3.50	32.50
Honey Dew. Lemon yellow. Incurved.	July 20	Short	Ter. Bud	Nov. 15	3.50	32.50
Jubilee. Light yellow. Incurved.	July 20	Short	Ter. Bud	Nov. 15	3.50	32.50
Yellow Mefo. Lemon yellow. Incurved.	July 25	Med.	Sept. 20	Nov. 20	3.50	32.50
Friendly Call. Buff yellow. Incurved.	July 25	Tall	Ter. Bud	Nov. 20	3.50	32.50
Friendly Rival. Deep chrome yellow. Incurved.	July 25	Med.	Sept. 10	Nov. 20	3.50	32.50
Major Bonnaffon. Light lemon yellow. Incurved.	July 25	Short	Sept. 10	Nov. 20	3.50	32.50
Marie DePetris. Deep golden yellow. Incurved.	July 25	Short	Sept. 15	Nov. 23	3.50	32.50
Sun Gold. Lemon yellow. Semi-incurved.	July 25	Med.	Sept. 30	Nov. 25	3.50	32.50
Golden Pearson. (Leroy Zang). Light golden yellow. Incurved. Sport from Gladys Pearson	July 25	Med.	Sept. 30	Nov. 25	3.50	32.50
Gloria. Lemon yellow. Incurved.	July 25	Med.	Ter. Bud	Nov. 25	12.00	100.00
Golden Chadwick. Light golden yellow. Semi- incurved	July 25	Med.	Ter. Bud	Nov. 25	3.50	32.50
Improved Yellow Chattanooga. Light lemon yellow. Incurved	July 25	Med.	Sept. 20	Nov. 25	3.50	32.50
R. M. Calkins. Golden yellow. Semi-incurved.	July 30	Med.	Sept. 20	Nov. 30	3.50	32.50
Golden Mrs. Ross. Golden yellow. Incurved.	July 30	Tall	Ter. Bud	Dec. 3	3.50	32.50
Golden Mistletoe. Pale golden yellow. Incurved.	Aug. 4	Med.	Sept. 30	Dec. 10	3.50	32.50
Meteore. Lemon yellow. Incurved.	Aug. 4	Med.	Ter. Bud	Dec. 10	6.00	50.00
Improved Tobin's Late Yellow. Deep lemon yellow. Semi-incurved. Sport from Tobin's Late Yellow	Aug. 10	Short	Sept. 30	Dec. 15	3.50	32.50

WHITE

Smith's Early White. Incurved.	June 20	Tall	Aug. 10	Oct. 5	3.50	32.50
Quaker Maid. White, tinged with pink. Reflexed	June 25	Med.	Aug. 25	Oct. 15	3.50	32.50
Silver Sheen. Incurved.	June 30	Med.	Aug. 30	Oct. 18	3.50	32.50



Large Flowering Varieties

WHITE—Continued

Name and Description	Last Pinch	Height	Select Bud	Matures	Price per	
					100	1000
Ambassador. Cream white. Incurved.....	July 5	Med.	Ter. Bud	Oct. 23	\$3.50	\$32.50
Albatross. Incurved	July 10	Med.	Ter. Bud	Nov. 1	3.50	32.50
Snow White. Incurved	July 10	Med.	Ter. Bud.	Nov. 1	3.50	32.50
Betsy Ross. Ivory white. Incurved.....	July 10	Tall	Aug. 25	Nov. 1	3.50	32.50
Chas. W. Johnson. Ivory white. Incurved.....	July 10	Med.	Sept. 10	Nov. 5	\$3.50	\$32.50
Indianapolis White. Incurved	July 15	Med.	Ter. Bud	Nov. 8	4.50	40.00
Jeân Elizabeth. Creamy white. Incurved.....	July 20	Med.	Ter. Bud	Nov. 15	4.50	40.00
Monument. Ivory white. Incurved.....	July 20	Med.	Sept. 10	Nov. 15	3.50	32.50
Marketeer. Incurved	July 20	Med.	Ter. Bud	Nov. 18	3.50	32.50
Mefo. Ivory white. Incurved.....	July 25	Med.	Sept. 20	Nov. 20	3.50	32.50
White Frick. White suffused with pink. Incurved. Sport from Helen Frick.....	July 25	Short	Sept. 10	Nov. 25	3.50	32.50
Chattanooga. Incurved	July 25	Med.	Sept. 20	Nov. 25	3.50	32.50
White Chadwick. White suffused with pink. Semi-incurved	July 25	Med.	Ter. Bud	Nov. 25	3.50	32.50
December Glory. Ivory white. Incurved.....	July 30	Tall	Sept. 30	Dec. 1	3.50	32.50
December White. Incurved	Aug. 4	Med.	Ter. Bud	Dec. 5	12.00	100.00
Improved December Beauty. Incurved. Sport from December Beauty	Aug. 4	Med.	Oct. 1	Dec. 8	3.50	32.50
White Mistletoe. Incurved	Aug. 4	Med.	Sept. 30	Dec. 10	3.50	32.50
Smith's Late White. Ivory white. Semi- incurved	Aug. 10	Short	Sept. 30	Dec. 15	3.50	32.50

BRONZE

Bronze Lode. Pale buff bronze. Reflexed. Sport from Gold Lode	June 20	Med.	Aug. 25	Oct. 1	3.50	32.50
Indianola. Pale reddish bronze. Incurved.....	June 25	Med.	Aug. 25	Oct. 10	3.50	32.50
Mongol. Golden bronze. Incurved.....	June 30	Med.	Ter. Bud	Oct. 20	12.00	100.00
Hilda Bergen. Dark reddish bronze. Incurved..	July 5	Med.	Aug. 25	Oct. 25	3.50	32.50
Cambria. Golden bronze. Incurved.....	July 5	Med.	Ter. Bud	Oct. 25	8.00	75.00
Alameda. Reddish bronze with buff reverse. Incurved	July 5	Short	Ter. Bud	Oct. 25	4.50	40.00
Glitters. Deep reddish orange. Reflexed.....	July 5	Med.	Ter. Bud	Oct. 28	3.50	32.50
Apricot Queen. Orange bronze. Incurved.....	July 10	Short	Sept. 5	Nov. 1	3.50	32.50
Detroit News. Reddish bronze with buff reverse. Incurved	July 10	Med.	Aug. 30	Nov. 1	3.50	32.50
Indianapolis Bronze. Buff bronze suffused with pink. Incurved	July 15	Med.	Ter. Bud	Nov. 8	3.50	32.50
Indian Chief. Deep reddish bronze with golden buff reverse. Incurved	July 15	Med.	Sept. 5	Nov. 10	3.50	32.50
Mrs. A. J. Stahelin. Reddish bronze. Incurved.	July 20	Med.	Ter. Bud	Nov. 15	3.50	32.50
Gladys Pearson. Light buff bronze. Incurved..	July 25	Med.	Sept. 30	Nov. 25	3.50	32.50
Oak Leaf. Reddish bronze. Incurved.....	July 25	Med.	Sept. 30	Nov. 25	3.50	32.50
Bronze Frick. Light bronze suffused with pink. Incurved. Sport from Helen Frick.....	July 25	Short	Sept. 10	Nov. 25	3.50	32.50
Bronze Mistletoe. Buff bronze suffused with pink. Incurved	Aug. 4	Med.	Sept. 30	Dec. 10	3.50	32.50

FOR SHADING INFORMATION AND DELAYED FLOWERING

SEE PAGES 20 TO 27



Large Flowering Varieties

PINK

Name and Description	Last Pinch	Height	Select Bud	Matures	Price per	
					100	1000
Lustre. Light lavender. Incurved	June 25	Short	Aug. 25	Oct. 10	\$3.50	\$32.50
Early October. Light lavender. Semi-incurved	June 25	Med.	Ter. Bud	Oct. 10	12.00	100.00
Pink Chief. Lavender. Incurved	June 25	Tall	Ter. Bud	Oct. 15	3.50	32.50
Justrite. Light rose pink. Incurved	June 25	Short	Ter. Bud	Oct. 15	3.50	32.50
Rose Glory. Deep lavender. Incurved	June 30	Med.	Ter. Bud	Oct. 20	3.50	32.50
Major Ed. Bowes. Deep lavender. Incurved	June 30	Med.	Aug. 30	Oct. 20	3.50	32.50
October Rose. Light lavender. Incurved	June 30	Med.	Sept. 5	Oct. 20	3.50	32.50
Rosabella. Rose pink. Incurved	July 5	Med.	Ter. Bud	Oct. 25	3.50	32.50
Roseum. Deep lavender. Incurved	July 10	Med.	Ter. Bud	Nov. 1	6.00	50.00
J. W. Prince. (Improved Chieftain). Rose pink. Incurved	July 10	Short	Aug. 30	Nov. 5	3.50	32.50
Indianapolis Pink. Deep lavender with pale reverse. Incurved	July 15	Med.	Ter. Bud	Nov. 8	3.50	32.50
Orchid Queen. Orchid pink. Incurved	July 15	Med.	Ter. Bud	Nov. 12	3.50	32.50
Dr. Enguehard. Deep lavender. Incurved	July 25	Med.	Sept. 5	Nov. 20	3.50	32.50
Peter John. Deep rose pink. Reflexed. Sport from Thanksgiving Pink	July 25	Short	Sept. 15	Nov. 23	3.50	32.50
Thanksgiving Pink. Amaranth. Reflexed	July 25	Short	Sept. 15	Nov. 23	3.50	32.50
Distinction. Lavender. Incurved	July 25	Med.	Ter. Bud	Nov. 25	3.50	32.50
Helen Frick. Rose pink. Incurved	July 25	Short	Sept. 10	Nov. 25	3.50	32.50
Edwin Seidewitz. Lavender. Incurved	July 30	Tall	Sept. 15	Nov. 30	3.50	32.50
Pink Mistletoe. Lavender. Incurved	Aug. 4	Med.	Sept. 30	Dec. 10	3.50	32.50

RED

Mrs. David F. Roy. Crimson with deep buff reverse. Incurved	July 15	Short	Sept. 15	Nov. 10	3.50	32.50
Anaconda. Coppery red with bronze reverse. Incurved	July 15	Med.	Sept. 15	Nov. 15	15.00	125.00
Garnet King. Dark red. Reflexed	July 20	Med.	Sept. 20	Nov. 18	3.50	32.50
Harvard. Deep red. Reflexed	July 30	Med.	Sept. 30	Nov. 30	3.50	32.50
Mohawk Chief. Deep red. Reflexed	July 30	Med.	Oct. 1	Nov. 30	3.50	32.50

Exhibition Varieties

Name and Description	Last Pinch	Height	Select Bud	Matures	Price per	
					100	1000
Grace Sturgis. Wine red with pinkish silver reverse. Reflexed	July 10	Tall	Aug. 25	Nov. 1	\$6.00	\$50.00
Yellow Turner. Yellow. Incurved	July 10	Med.	Aug. 25	Nov. 5	6.00	50.00
William Turner. White. Incurved	July 10	Med.	Aug. 25	Nov. 5	6.00	50.00
Bronze Turner. Light bronze. Incurved	July 10	Med.	Aug. 25	Nov. 5	6.00	50.00
Pink Turner. (Mrs. Leslie Davis). Lavender. Incurved	July 10	Med.	Aug. 25	Nov. 5	6.00	50.00
Yellow Pockett. Yellow. Incurved	July 15	Med.	Aug. 15	Nov. 8	8.00	75.00
Louisa Pockett. White. Incurved	July 15	Med.	Aug. 15	Nov. 8	8.00	75.00
Dark Pink Thos. Pockett. Lavender. Semi-incurved	July 15	Med.	Aug. 15	Nov. 8	8.00	75.00



Pompon and Decorative Varieties

The term pompon is applied to those varieties which are of the true rounded type, and those very nearly approaching this type.

Decorative varieties are those which are a distinct departure from the rounded type. Their flowers are less compact, partly reflexed and display more of the color of the inner side of the petals.

Size of flower is indicated by S—small; Int.—intermediate; L—Large.

YELLOW

Name and Description	Last Pinch	Height	Size & Type	Matures	Price per	
					100	1000
Yellow Irene. Light lemon yellow	June 20	Short	S. Pom.	Oct. 18	\$3.50	\$32.50
Rodell Improved. Light lemon yellow	June 25	Short	Int. Pom.	Oct. 20	3.50	32.50
Gold Finch. Golden yellow	June 25	Med.	Int. Pom.	Oct. 20	3.50	32.50
Yellow Hammer. Golden yellow	June 25	Med.	Int. Pom.	Oct. 20	12.00	100.00
Golden Spray. Deep lemon yellow	June 30	Med.	Int. Pom.	Oct. 23	3.50	32.50
*Golden Herald. Deep golden yellow	June 30	Med.	L. Dec.	Oct. 25	3.50	32.50
Cora Peck Buhl. Light buff yellow	June 30	Tall	Int. Pom.	Oct. 25	3.50	32.50
Yellow Dot. Yellow with bronze center. Sport from Pink Dot	June 30	Med.	Int. Pom.	Oct. 25	3.50	32.50
Yellow Arcadia. Pernet yellow	June 30	Med.	Int. Pom.	Oct. 28	4.50	40.00
Mary Lennon Hall. (Vera Victoria). Deep lemon yellow	July 5	Tall	Int. Pom.	Nov. 1	3.50	32.50
Yellow Sea Gull. Pale lemon yellow	July 5	Tall	Int. Pom.	Nov. 1	3.50	32.50
*Yellow Doty. Buff yellow	July 5	Med.	L. Pom.	Nov. 1	3.50	32.50
Nuggets. Light lemon yellow	July 5	Short	S. Pom.	Nov. 5	3.50	32.50
Yellow Bushnell. Pernet yellow. Sport from Rev. Bushnell	July 10	Tall	Int. Pom.	Nov. 8	4.50	40.00
Pixie. Deep golden yellow	July 10	Med.	S. Pom.	Nov. 10	15.00	125.00
Derigold. Deep golden yellow	July 10	Med.	Int. Pom.	Nov. 10	3.50	32.50
Yellow New York. Deep lemon yellow	July 10	Med.	S. Pom.	Nov. 13	3.50	32.50
Yellow Fellow. Deep lemon yellow	July 15	Med.	Int. Dec.	Nov. 15	3.50	32.50
Lois. Deep golden yellow	July 15	Med.	S. Pom.	Nov. 18	3.50	32.50
Golden Imperial. Golden yellow	July 15	Med.	Int. Pom.	Nov. 20	15.00	125.00
Hasegawa Gold. Light golden yellow	July 15	Med.	Int. Pom.	Nov. 23	3.50	32.50
*Goldsmith. Golden yellow	July 20	Med.	Int. Dec.	Nov. 25	4.50	40.00
Golden Sceptre. Lemon yellow	July 20	Tall	S. Pom.	Nov. 25	3.50	32.50
Golden Surprise. Sulphur yellow	July 20	Med.	Int. Pom.	Nov. 25	15.00	125.00
*Yellow Yuletide. Pale lemon yellow	July 25	Short	Int. Pom.	Nov. 28	3.50	32.50
Christmas Gold. Deep golden yellow	July 25	Med.	S. Pom.	Nov. 28	3.50	32.50
Yellow Cordova. Lemon yellow	July 25	Med.	Int. Dec.	Nov. 30	3.50	32.50
Gold Coin. (Unalga). Deep lemon yellow	July 25	Med.	Int. Pom.	Dec. 1	3.50	32.50
Yuvawn. Buff yellow	July 25	Med.	Int. Pom.	Dec. 3	3.50	32.50
Golden Modena. Deep lemon yellow	July 25	Med.	Int. Pom.	Dec. 5	3.50	32.50
Yellow Silver Star. Pale lemon yellow	July 30	Tall	Int. Pom.	Dec. 10	3.50	32.50
December Gold. Deep golden yellow	Aug. 4	Med.	Int. Dec.	Dec. 15	3.50	32.50
Christmas Cheer. Buff yellow	Aug. 4	Med.	Int. Pom.	Dec. 15	3.50	32.50
Spun Gold. Deep lemon yellow	Aug. 5	Med.	L. Dec.	Dec. 15	15.00	125.00
Vibrant. Deep lemon yellow	Aug. 5	Med.	Int. Dec.	Dec. 20	4.50	40.00
Winterset. Lemon yellow	Aug. 5	Med.	Int. Pom.	Dec. 25	4.50	40.00
Yellow Snow. Deep lemon yellow	Aug. 5	Med.	Int. Pom.	Dec. 30	8.00	75.00

WHITE

Uvalda. Cream white	June 20	Med.	Int. Pom.	Oct. 10	3.50	32.50
White Jewell. White tinged with light lavender	June 20	Short	S. Pom.	Oct. 15	3.50	32.50

* Responds to Disbudding.



Pompon and Decorative Varieties

WHITE—Continued

Name and Description	Last Pinch	Height	Size & Type	Matures	Price per	
					100	1000
*Silver Ball	June 20	Med.	L. Pom.	Oct. 15	\$3.50	\$32.50
Irene	June 20	Short	S. Pom.	Oct. 18	3.50	32.50
Minong	June 25	Med.	S. Pom.	Oct. 20	3.50	32.50
Silver Bells	June 30	Med.	S. Pom.	Oct. 23	3.50	32.50
Arcadia	June 30	Med.	Int. Pom.	Oct. 28	3.50	32.50
Sea Gull. Cream white	July 5	Tall	Int. Pom.	Nov. 1	3.50	32.50
Mary Pickford	July 5	Short	S. Pom.	Nov. 1	3.50	32.50
*White Doty. Ivory white	July 5	Med.	L. Pom.	Nov. 1	3.50	32.50
Rev. Horace Bushnell. Cream white	July 10	Tall	Int. Pom.	Nov. 8	3.50	32.50
Crystal Jewell	July 10	Tall	S. Pom.	Nov. 8	3.50	32.50
Chicago Pearl. Ivory white	July 15	Med.	Int. Pom.	Nov. 15	3.50	32.50
Bobbie	July 15	Med.	S. Pom.	Nov. 18	3.50	32.50
Pearl	July 20	Tall	Int. Pom.	Nov. 20	3.50	32.50
*Seafoam	July 25	Med.	Int. Pom.	Nov. 20	15.00	125.00
*White Yuletide	July 25	Short	Int. Pom.	Nov. 28	3.50	32.50
Cordova. Cream white	July 25	Med.	Int. Dec.	Nov. 30	3.50	32.50
Royal Queen	July 30	Med.	Int. Pom.	Dec. 5	3.50	32.50
Cameo. Ivory white	July 30	Med.	Int. Pom.	Dec. 5	8.00	75.00
Silver Star. Ivory white	July 30	Tall	Int. Pom.	Dec. 10	3.50	32.50
December Glory. Ivory white	Aug. 4	Med.	Int. Dec.	Dec. 15	3.50	32.50
Snow. Ivory white	Aug. 4	Med.	Int. Pom.	Dec. 30	3.50	32.50

BRONZE

Clara Jameson. Dark reddish bronze	June 20	Med.	S. Pom.	Oct. 15	3.50	32.50
Bonibell. Light buff bronze	June 20	Short	S. Pom.	Oct. 15	3.50	32.50
Roman Bronze. Bronze suffused with pink. Sport from Capt. Cook	June 25	Tall	Int. Pom.	Oct. 20	3.50	32.50
Carlina Lee. Reddish bronze	June 25	Med.	Int. Dec.	Oct. 20	3.50	32.50
Adelaide. Dark reddish bronze	June 25	Med.	S. Pom.	Oct. 23	3.50	32.50
*Jemima. Dark reddish bronze	June 25	Med.	Int. Pom.	Oct. 23	3.50	32.50
Bronze Persian Rose. Bronze suffused with pink	June 30	Short	Int. Pom.	Oct. 23	4.50	40.00
Ethel. Reddish bronze	June 30	Med.	S. Pom.	Oct. 25	3.50	32.50
Fire Bird. Dark reddish bronze	June 30	Med.	Int. Dec.	Oct. 25	3.50	32.50
Elizabeth Peterson. Light orange bronze	July 5	Med.	Int. Dec.	Nov. 3	3.50	32.50
Bronze Bulkeley. Bronze suffused with pink. Sport from Mrs. Bulkeley	July 10	Tall	Int. Pom.	Nov. 8	4.50	40.00
Cassandra. Orange bronze	July 10	Med.	Int. Pom.	Nov. 10	15.00	125.00
New York. Reddish bronze	July 10	Med.	S. Pom.	Nov. 13	3.50	32.50
*Bronze Masterpiece. Apricot bronze. Sport from Masterpiece	July 15	Med.	Int. Pom.	Nov. 15	6.00	50.00
Fez. Deep reddish bronze	July 15	Med.	S. Pom.	Nov. 15	3.50	32.50
Princeton. Golden yellow suffused with orange	July 15	Med.	Int. Dec.	Nov. 15	3.50	32.50
November Bronze. Orange bronze	July 15	Med.	Int. Pom.	Nov. 18	3.50	32.50
Catherine. Light reddish bronze	July 20	Med.	Int. Dec.	Nov. 20	3.50	32.50
Legal Tender. Bronze and Gold	July 20	Med.	Int. Dec.	Nov. 20	3.50	32.50
Mrs. Beu. Orange bronze	July 20	Med.	Int. Dec.	Nov. 25	3.50	32.50
Apricon. Apricot yellow	July 20	Med.	Int. Pom.	Nov. 25	4.50	40.00
Dorothy Turner. Deep reddish bronze	July 20	Med.	Int. Pom.	Nov. 25	3.50	32.50
Bristolite. Deep orange bronze	July 20	Med.	Int. Pom.	Nov. 25	3.50	32.50
Glow. Orange, reddish orange at center	July 25	Med.	Int. Pom.	Nov. 30	3.50	32.50
Orange Belle. Reddish bronze	July 25	Med.	S. Pom.	Nov. 30	8.00	75.00

* Responds to Disbudding.



Pompon and Decorative Varieties

BRONZE—Continued

Name and Description	Last Pinch	Height	Size & Type	Matures	Price per	
					100	1000
Wildfire. Orange rust	July 25	Med.	Int. Dec.	Dec. 3	\$3.50	\$32.50
Harmony. Red orange with bronze shading	July 30	Med.	Int. Pom.	Dec. 5	3.50	32.50
Cavalcade. Mandarin red. Golden bronze reverse	July 30	Med.	Int. Pom.	Dec. 10	3.50	32.50

PINK

Cho Cho. Lavender	June 20	Med.	S. Pom.	Oct. 10	12.00	100.00
Jewell. Lavender	June 20	Short	S. Pom.	Oct. 15	3.50	32.50
Dark Pink Jewell. Deep lavender. Sport from Jewell	June 20	Short	S. Pom.	Oct. 15	3.50	32.50
Pink Pearl. Rose pink	June 25	Med.	S. Pom.	Oct. 20	3.50	32.50
Capt. Cook. Deep rose pink	June 25	Tall	Int. Pom.	Oct. 20	3.50	32.50
Fair Maid. Light lavender	June 25	Med.	Int. Pom.	Oct. 20	12.00	100.00
Persian Rose. Deep rose pink	June 30	Short	Int. Pom.	Oct. 23	3.50	32.50
Jessie (Madeline). Light lavender	June 30	Med.	Int. Pom.	Oct. 25	3.50	32.50
Pink Dot. White with pink center	June 30	Med.	Int. Pom.	Oct. 25	3.50	32.50
Isobel. Light lavender	July 5	Short	S. Pom.	Nov. 1	6.00	50.00
*Irene Rich. Light rose pink	July 5	Med.	L. Pom.	Nov. 1	3.50	32.50
*Lillian Doty. Pale rose pink	July 5	Med.	L. Pom.	Nov. 1	3.50	32.50
*Rose Charm. Lavender	July 5	Med.	L. Pom.	Nov. 1	3.50	32.50
Mrs. Morgan G. Bulkeley. Light rose pink suffused with orchid lavender	July 10	Tall	Int. Pom.	Nov. 8	3.50	32.50
*Thyra. Lavender	July 10	Med.	L. Pom.	Nov. 10	3.50	32.50
Silver Tips. Deep lavender with silver tips	July 15	Med.	Int. Pom.	Nov. 13	3.50	32.50
*Masterpiece. Tourmaline pink	July 15	Med.	Int. Pom.	Nov. 15	3.50	32.50
Usona. Lavender	July 20	Med.	Int. Pom.	Nov. 25	3.50	32.50
Uneeda. Lavender	July 20	Med.	Int. Pom.	Nov. 25	12.00	100.00
Amaranthea. Amaranth	July 30	Med.	Int. Pom.	Dec. 10	3.50	32.50
Tonquin. Deep lavender	July 30	Med.	Int. Pom.	Dec. 10	3.50	32.50
Prosperity. Deep lavender	July 30	Med.	Int. Dec.	Dec. 10	3.50	32.50
Pink Treasure Island. Light lavender	Aug. 4	Med.	Int. Dec.	Dec. 20	3.50	32.50

RED

Natoma. Flame scarlet	June 30	Short	Int. Dec.	Oct. 25	3.50	32.50
Robin Hood. Dark red	July 5	Med.	S. Pom.	Nov. 5	3.50	32.50
Navaho. Dark red	July 5	Med.	Int. Dec.	Nov.	15.00	125.00
Red Princeton. Brazil red	July 15	Med.	Int. Dec.	Nov. 15	3.50	32.50
Mrs. Mary Hooker. Deep red	July 15	Tall	L. Dec.	Nov. 15	3.50	32.50
Red Beau. Bronzy red	July 20	Short	Int. Pom.	Nov. 25	3.50	32.50
Royal Crimson. Dark crimson	July 25	Med.	L. Dec.	Dec. 1	3.50	32.50

Odd Formed — Feathery and Threadlike Varieties

Name and Description	Last Pinch	Height	Select Bud	Matures	Price per	
					100	1000
Kay Tashima. White	July 10	Med.	Ter. Bud	Nov. 1	\$6.00	\$50.00
Ohkwan. Lemon yellow	July 10	Med.	Ter. Bud	Nov. 1	6.00	50.00
Peggy Ann Hoover. Light rose pink	July 10	Short	Ter. Bud	Nov. 5	6.00	50.00
Mamoru. Orange bronze	July 10	Med.	Ter. Bud	Nov. 5	6.00	50.00
Silver Drops. White	July 15	Short	Ter. Bud	Nov. 10	6.00	50.00
Yomei. Golden yellow with red spoon tips	July 15	Med.	Ter. Bud	Nov. 10	6.00	50.00
Unique. Amaranth red	July 20	Tall	Ter. Bud	Dec. 1	6.00	50.00

* Responds to Disbudding.



Single - Daisy Type - Varieties

YELLOW

Name and Description	Last Pinch	Height	Size	Matures	Price per	
					100	1000
Yellow Daisy. Deep lemon yellow	June 30	Med.	Int.	Nov. 1	\$3.50	\$32.50
Gretchen Piper. Lemon yellow	July 5	Med.	Int.	Nov. 1	3.50	32.50
*Golden Mensa. Pale lemon yellow	July 10	Med.	Int.	Nov. 10	3.50	32.50
Sunny Boy. Pale buff yellow	July 15	Med.	Int.	Nov. 15	3.50	32.50
Golden Jane. Golden sport from Jane	July 25	Tall	Large	Nov. 30	15.00	125.00
Fawn. Deep buff yellow	July 25	Med.	Int.	Dec. 5	3.50	32.50

WHITE

Nagona. Ivory white	July 10	Med.	Int.	Nov. 10	3.50	32.50
*White Mensa. Ivory white	July 10	Med.	Int.	Nov. 10	3.50	32.50
Yukon	July 30	Tall	Int.	Dec. 10	4.50	40.00

BRONZE

October Bronze. Light bronze	June 30	Med.	Int.	Oct. 28	3.50	32.50
Bronze Daisy. Light bronze	June 30	Med.	Int.	Nov. 1	3.50	32.50
Bronze Buckingham. Light orange bronze	July 5	Short	Int.	Nov. 3	3.50	32.50
*Mason's Bronze. Burnt orange	July 10	Short	Large	Nov. 10	3.50	32.50
*Melba. Light reddish bronze	July 10	Short	Large	Nov. 10	3.50	32.50
Vagabond. Apricot buff	July 15	Med.	Int.	Nov. 15	4.50	40.00
Afterglow. Rust bronze	July 20	Med.	Int.	Nov. 20	4.50	40.00
Amberlite. Orange bronze	July 20	Med.	Int.	Nov. 25	8.00	75.00
*Sunburst. Sunburst orange	July 20	Med.	Large	Nov. 25	3.50	32.50
*Jane. Light buff bronze. Sport from Valencia	July 25	Tall	Large	Nov. 30	3.50	32.50
Apricot Valencia. Buff bronze	July 25	Tall	Large	Nov. 30	15.00	125.00
Viking. Deep reddish bronze shading to orange	July 25	Med.	Int.	Dec. 1	3.50	32.50

PINK

October Pink. Light lavender	June 30	Med.	Int.	Oct. 28	3.50	32.50
W. H. Buckingham. Rose pink	July 5	Short	Int.	Nov. 3	3.50	32.50
Hasekawa Pink. Lavender	July 20	Med.	Int.	Nov. 25	3.50	32.50
*Valencia. Orchid pink	July 25	Tall	Large	Nov. 30	3.50	32.50
*Dark Pink Valencia. Deep orchid pink	July 25	Tall	Large	Nov. 30	3.50	32.50
Aurora. Lavender	Aug. 4	Med.	Int.	Dec. 15	12.00	100.00
Rosalind. Rose pink	Aug. 4	Tall	Int.	Dec. 20	8.00	75.00
Carillon. Orchid pink	Aug. 4	Tall	Int.	Dec. 20	15.00	125.00

RED

*Red Rover. Crimson orange	July 5	Short	Large	Nov. 5	3.50	32.50
Red Daisy. Deep red	July 5	Med.	Int.	Nov. 5	3.50	32.50
*Mason's Red. Crimson with orange center	July 10	Short	Large	Nov. 10	4.50	40.00
Tagoya. Brilliant Goya Red	July 10	Short	Int.	Nov. 10	3.50	32.50
*Europa. Cardinal red	July 10	Short	Large	Nov. 10	8.00	75.00
*Clara Holford. Deep red	July 10	Med.	Large	Nov. 10	3.50	32.50
*Red Melba. Light red	July 10	Short	Large	Nov. 10	3.50	32.50
Flamingo. Scarlet with yellow center	July 20	Med.	Int.	Nov. 20	4.50	40.00
*Carnelia. Bittersweet red	July 25	Short	Large	Nov. 30	3.50	32.50
Red Valencia. Brazil red	July 25	Tall	Large	Nov. 30	15.00	125.00
Blaze. Deep scarlet red	Aug. 4	Tall	Int.	Dec. 10	3.50	32.50
Sarong. Crimson scarlet	Aug. 4	Med.	Int.	Dec. 15	4.50	40.00

* Responds to Disbudding.



Anemone Flowered Varieties

YELLOW

Name and Description	Last Pinch	Height	Size	Matures	Price per	
					100	1000
Yellow Blanche. Pale lemon yellow	July 5	Med.	Int.	Nov. 1	\$3.50	\$32.50
*Helios. Deep golden yellow	July 10	Med.	Large	Nov. 10	3.50	32.50
Sunray. Light lemon yellow	July 15	Med.	Int.	Nov. 15	3.50	32.50
*Susanne Miller. Buff yellow	July 20	Tall	Large	Nov. 18	3.50	32.50
*Yellow Rolinda. Light buff yellow	July 20	Med.	Int.	Nov. 23	3.50	32.50
*Citrus Queen. Lemon orange	July 20	Med.	Large	Nov. 25	3.50	32.50
*Gleam. Deep lemon yellow	July 25	Med.	Large	Dec. 5	3.50	32.50
*Yellow Supreme. Buff yellow suffused with pink	July 30	Med.	Large	Dec. 10	3.50	32.50
Yellow Garza Supreme. Pale lemon yellow	Aug. 4	Short	Int.	Dec. 15	3.50	32.50

WHITE

*Graceland. White with yellow center	July 5	Med.	Int.	Oct. 28	3.50	32.50
White Izola	July 5	Med.	Small	Nov. 1	3.50	32.50
Blanche	July 5	Med.	Int.	Nov. 1	3.50	32.50
*White Anemone	July 5	Tall	Int.	Nov. 5	3.50	32.50
Collarette. White with yellow cushion	July 10	Med.	Int.	Nov. 8	12.00	100.00
*Shasta	July 10	Med.	Int.	Nov. 8	3.50	32.50
*Little America	July 10	Med.	Int.	Nov. 10	3.50	32.50
*White Freida. White with yellow cushion	July 15	Med.	Large	Nov. 15	4.50	40.00
*White Norma. White suffused with pink	July 20	Tall	Large	Nov. 18	3.50	32.50
*Long Island Beauty. White suffused with pink	July 20	Med.	Large	Nov. 20	3.50	32.50
Early Garza Supreme	July 20	Short	Int.	Nov. 25	3.50	32.50
*White Supreme. White suffused with pink	July 30	Short	Int.	Dec. 15	3.50	32.50
Garza Supreme	Aug. 4	Med.	Large	Dec. 10	3.50	32.50

BRONZE

*Bronze Tuxedo. Light buff suffused with pink	July 10	Med.	Large	Nov. 10	3.50	32.50
*Bronze Freida. Salmon buff with yellow center	July 15	Med.	Large	Nov. 15	4.50	40.00
*Rolinda. Reddish bronze	July 20	Med.	Small	Nov. 25	3.50	32.50
Yolanda. Light orange bronze	July 20	Med.	Int.	Nov. 23	3.50	32.50
Chrome Emerald. Golden orange, gold cushion	July 25	Short	Int.	Dec. 1	3.50	32.50
*Bronze Supreme. Light bronze suffused pink	July 30	Med.	Large	Dec. 10	3.50	32.50

PINK

*Betty Rose. Lavender	July 1	Med.	Large	Oct. 25	3.50	32.50
*Rose Royal. Light Lavender	July 5	Med.	Int.	Nov. 1	3.50	32.50
*Topknot. Amaranth with cream white cushion	July 5	Med.	Int.	Nov. 5	3.50	32.50
Linda Lou. Lavender	July 10	Med.	Int.	Nov. 8	3.50	32.50
*Tuxedo. Rose pink	July 10	Med.	Large	Nov. 10	3.50	32.50
Orchid Beauty. Orchid with golden cushion	July 15	Med.	Int.	Nov. 15	3.50	32.50
*Freida. Light lavender with yellow cushion	July 15	Med.	Large	Nov. 15	3.50	32.50
*Dark Pink Freida. Deep lavender	July 15	Med.	Large	Nov. 15	4.50	40.00
*Norma. Orchid pink petals with salmon cushion	July 20	Tall	Int.	Nov. 18	3.50	32.50
*Dark Pink Norma. Deep lavender	July 20	Tall	Int.	Nov. 18	3.50	32.50
*Long Island Beauty. Pale pink (see white)	July 20	Med.	Large	Nov. 20	3.50	32.50
*Beautiful Lady. Lavender rays, white cushion	July 20	Short	Large	Nov. 25	3.50	32.50
*Enchantress. Deep pink	Aug. 4	Med.	Large	Dec. 5	15.00	125.00
*Dark Pink Supreme. Lavender	July 30	Med.	Large	Dec. 10	3.50	32.50

RED

*The Titan. Scarlet crimson, with bronzy red cushion	July 10	Med.	Large	Nov. 10	3.50	32.50
*Red Rolinda. Deep reddish bronze	July 20	Med.	Int.	Nov. 23	3.50	32.50
*Crimson Glow. Crimson maroon	July 20	Med.	Int.	Nov. 25	3.50	32.50
*Matador. Crimson red	July 30	Med.	Large	Dec. 5	8.00	75.00

* Responds to Disbudding.



Pot Plant Varieties

The varieties listed below include those of all types which have been found most suitable for pot culture. Types are indicated by Sign.—Single; Anem.—Anemone; Dec.—Decorative; Pom.—Pompon and Inc.—Incurved. Size of flower is indicated by S—Small; Int.—Intermediate; L—Large and L.F.—Large flowering Commercial.

YELLOW

Name and Description	Last Pinch							
Early Yellow. Light golden yellow	Aug. 24	S. Pom.	Spray	Sept. 15	\$3.50	\$32.50		
Pomponette. Light buff yellow	Aug. 24	Int. Pom.	Spray	Sept. 20	4.50	40.00		
Gold Lode. Light golden yellow	Aug. 24	L. F. Dec.	Disbud	Oct. 1	3.50	32.50		
Cincinnati. Golden yellow	Aug. 24	L. Pom.	Disbud	Oct. 20	3.50	32.50		
Rodell Improved. Light lemon yellow	Aug. 24	Int. Pom.	Spray	Oct. 20	3.50	32.50		
Blazing Gold. Deep golden yellow	Aug. 24	L. F. Inc.	Disbud	Oct. 25	3.50	32.50		
Smith's Superlative. Deep golden yellow	Aug. 24	L. F. Dec.	Disbud	Oct. 25	3.50	32.50		
Jane Harte. Light lemon yellow	Aug. 24	S. Sing.	Cascade	Oct. 30	6.00	50.00		
Ohio State. Light lemon yellow	Aug. 24	Int. Anem.	Disbud	Nov. 1	3.50	32.50		
Golden Glory. Golden yellow	Aug. 24	L. F. Inc.	Disbud	Nov. 1	3.50	32.50		
Nuggets. Light lemon yellow	Aug. 24	S. Pom.	Spray	Nov. 5	3.50	32.50		
Cardonia. Golden yellow	Aug. 29	L. F. Inc.	Disbud	Nov. 10	3.50	32.50		
Lila Lilly. Lemon yellow	Aug. 29	Int. Anem.	Disbud	Nov. 10	3.50	32.50		
Yellow Beauty. Golden yellow	Aug. 29	L. Pom.	Disbud	Nov. 10	3.50	32.50		
Sunray. Light lemon yellow	Sept. 3	Int. Anem.	Spray	Nov. 15	3.50	32.50		
Yellow Fellow. Deep lemon yellow	Sept. 3	Int. Dec.	Disbud					
			or Spray	Nov. 15	3.50	32.50		
Lois. Deep golden yellow	Sept. 3	S. Pom.	Spray	Nov. 18	3.50	32.50		
Bonnaffon Deluxe. Golden yellow	Sept. 3	L. F. Inc.	Disbud	Nov. 20	3.50	32.50		
Bright Light. Light lemon yellow	Sept. 3	L. Dec.	Disbud	Nov. 20	3.50	32.50		
Yellow Rolinda. Buff yellow	Sept. 8	Int. Anem.	Disbud					
			or Spray	Nov. 23	3.50	32.50		
Sun Gold. Lemon yellow	Sept. 8	L. F. Dec.	Disbud	Nov. 25	3.50	32.50		
Sunshine. Deep golden yellow	Sept. 8	Int. Anem.	Disbud	Nov. 25	3.50	32.50		

WHITE

White Jewell. White tinged with light lavender	Aug. 24	S. Pom.	Spray	Oct. 15	3.50	32.50		
Irene	Aug. 24	S. Pom.	Spray	Oct. 18	3.50	32.50		
Christina	Aug. 24	L. F. Inc.	Disbud	Oct. 20	3.50	32.50		
Graceland. White with yellow center	Aug. 24	Int. Anem.	Disbud					
			or Spray	Oct. 28	3.50	32.50		
Anna. White		S. Sing.	Cascade	Oct. 30	6.00	50.00		
White Izola. Sport from Izola	Aug. 24	S. Anem.	Disbud	Nov. 1	3.50	32.50		
Little America	Aug. 29	Int. Anem.	Disbud					
			or Spray	Nov. 10	3.50	32.50		
Richard Mandel	Aug. 29	L. Pom.	Disbud	Nov. 10	3.50	32.50		
Marketeer	Sept. 3	L. F. Inc.	Disbud	Nov. 18	3.50	32.50		
White Frick	Sept. 3	L. F. Inc.	Disbud	Nov. 25	3.50	32.50		



Pot Plant Varieties

BRONZE AND RED

Name and Description	Last Pinch	Size & Type	Spray or Disbud	Blooming Date	Price per	
					100	1000
Early Bronze. Orange bronze	Aug. 24	S. Pom.	Spray	Sept. 15	\$3.50	\$32.50
Bronze Lode. Pale buff bronze	Aug. 24	L. F. Dec.	Disbud	Oct. 1	3.50	32.50
Bonnibell. Light buff bronze	Aug. 24	S. Pom.	Spray	Oct. 15	3.50	32.50
Thorina. Reddish bronze	Aug. 24	Int. Pom.	Spray	Oct. 20	3.50	32.50
Carlina Lee. Reddish bronze	Aug. 24	Int. Dec.	Disbud	Oct. 20	3.50	32.50
Kathleen Thompson. Bronze	Aug. 24	Int. Dec.	Disbud	Oct. 25	3.50	32.50
Ethel. Reddish bronze	Aug. 24	S. Pom.	Spray	Oct. 25	3.50	32.50
Alameda. Reddish bronze with buff reverse	Aug. 29	L. F. Inc.	Disbud	Oct. 25	4.50	40.00
Glitters. Deep reddish orange	Aug. 29	L. F. Dec.	Disbud	Oct. 28	3.50	32.50
Apricot Queen. Orange bronze	Aug. 29	L. F. Dec.	Disbud	Nov. 10	3.50	32.50
Clara Holford. Deep red	Aug. 29	L. Sing.	Disbud	Nov. 10	3.50	32.50
Melba. Light reddish bronze	Aug. 29	L. Sing.	Disbud	Nov. 10	3.50	32.50
Red Melba. Light red	Aug. 29	L. Sing.	Disbud	Nov. 10	3.50	32.50
Gypsy. Pale reddish bronze	Aug. 29	S. Anem.	Spray	Nov. 15	3.60	32.50
Rolinda. Reddish bronze	Sept. 8	Int. Anem.	Disbud or Spray	Nov. 23	3.50	32.50
Red Rolinda. Deep reddish bronze	Sept. 8	Int. Anem.	Disbud or Spray	Nov. 23	3.50	32.50
Mrs. Beu. Orange bronze	Sept. 8	Int. Dec.	Disbud or Spray	Nov. 25	3.50	32.50
Red Beu. Reddish bronze	Sept. 8	Int. Dec.	Disbud or Spray	Nov. 25	3.50	32.50
Bronze Frick	Sept. 3	L. F. Dec.	Disbud	Nov. 25	3.50	32.50
Harvard. Deep red		L. F. Dec.	Disbud	Nov.30	3.50	32.50

PINK

Jewell. Lavender	Aug. 24	S. Pom.	Spray	Oct. 15	3.50	32.50
Justrite. Light rose pink	Aug. 24	L. F. Inc.	Disbud	Oct. 15	3.50	32.50
Benoit. Deep lavender	Aug. 24	Int. Pom.	Disbud	Oct. 15	3.50	32.50
Rose Chochard. Light lavender	Aug. 24	L. F. Inc.	Disbud	Oct. 20	3.50	32.50
Rose Mandel. Light lavender	Aug. 24	L. F. Inc.	Disbud	Oct. 20	3.50	32.50
Butler's Caprice. Rose pink	Aug. 24	Int. Dec.	Disbud or Spray	Oct. 25	3.50	32.50
Topknot. Amaranth with white cushion	Aug. 29	Int. Anem.	Disbud	Nov. 5	3.50	32.50
Thyra. Deep lavender	Aug. 29	L. Pom.	Disbud	Nov. 10	3.50	32.50
Queen of Pinks. Lavender	Aug. 29	L. Pom.	Disbud	Nov. 10	3.50	32.50
Ethzelda. Light lavender	Aug. 29	Int. Anem.	Disbud or Spray	Nov. 12	3.50	32.50
Helen Frick	Sept. 3	L. F. Dec.	Disbud	Nov. 25	3.50	32.50
Amaranthea. Amaranth	Sept. 8	Int. Pom.	Spray	Dec. 10	3.50	32.50



Garden Varieties

YELLOW

Name and Description	Height	Type	Matures	Price per	
				100	1000
Harvest Gold. Pale lemon yellow	Short	Semi-Double	Sept. 1	\$4.50	\$40.00
†Pygmy Gold. Golden yellow	Short	Button	Sept. 5	3.50	32.50
Algonquin. Golden yellow	Med.	Decorative	Sept. 10	3.50	32.50
Yellow Cushion. Light buff yellow	Short	Semi-Double	Sept. 10	3.50	32.50
Barbara Cumming (Yellow Normandie). Buff yellow	Med.	Decorative	Sept. 15	3.50	32.50
Early Yellow. Light golden yellow. Sport from Early Bronze	Short	Button	Sept. 15	3.50	32.50
September Gold. Brilliant golden yellow	Med.	Button	Sept. 15	15.00	125.00
†Eugene A. Wander. Brilliant golden yellow	Med.	Decorative	Sept. 20	12.00	100.00
Pomponette. Light buff yellow	Med.	Pompon	Sept. 20	4.50	40.00
Wolverine. Light yellow	Med.	Decorative	Sept. 25	3.50	.3250
†King Midas. Light lemon yellow	Med.	Decorative	Sept. 30	3.50	32.50
†Gleam O'Gold. Pale lemon yellow	Short	Decorative	Oct. 5	7.00	65.00
Treasure Trove. Lemon yellow	Med.	Button	Oct. 5	7.00	65.00
Golden Spoon. Golden yellow	Med.	Spoon	Oct. 10	3.50	32.50
Yellow Irene. Light lemon yellow. Sport from Irene	Med.	Button	Oct. 15	3.50	32.50
Rodell Improved. Light lemon yellow	Med.	Button	Oct. 15	3.50	32.50
Judith Anderson. Golden yellow	Med.	Button	Oct. 15	3.50	32.50

WHITE

White Cushion (Queen Cushion)	Short	Semi-double	Sept. 10	3.50	32.50
September Cloud. White suffused with pink	Med.	Decorative	Sept. 15	15.00	125.00
White Gull	Short	Button	Sept. 15	3.50	32.50
Silver Moon. Cream white	Med.	Single	Sept. 15	15.00	125.00
Jean Cumming. Ivory white	Med.	Decorative	Sept. 20	3.50	32.50
Normandie. White suffused with pink	Short	Decorative	Sept. 20	3.50	32.50
†Milky Way. Cream white	Med.	Semi-Double	Sept. 25	8.00	75.00
Tasiva. Cream white	Med.	Decorative	Oct. 5	3.50	32.50
White Spoon	Med.	Spoon	Oct. 10	3.50	32.50
Uvalda. Cream white	Med.	Decorative	Oct. 10	3.50	32.50
White Jewell. White tinged with light lavender	Med.	Button	Oct. 15	3.50	32.50
Silver Ball	Med.	Decorative	Oct. 15	3.50	32.50
Irene	Med.	Button	Oct. 15	3.50	32.50

BRONZE

Bronze Cushion (King Cushion). Buff bronze	Short	Semi-double	Sept. 10	3.50	32.50
Aladdin. Deep apricot	Short	Decorative	Sept. 10	3.50	32.50
Early Bronze. Orange bronze	Short	Button	Sept. 15	3.50	32.50
September Bronze. Orange bronze	Med.	Button	Sept. 15	15.00	125.00
Autumn Lights. Coppery bronze	Short	Semi-Double	Sept. 20	4.50	40.00
Frances Whittlesey. Deep bronze and garnet	Short	Decorative	Sept. 30	3.50	32.50

† Indicates Korean Varieties.

Garden Varieties

BRONZE—Continued

Name and Description	Height	Type	Matures	Price per	
				100	1000
Peachblow. Buff bronze	Med.	Single	Sept. 30	\$15.00	\$125.00
†Mrs. du Pont. Peach pink shading to rosy salmon	Med.	Decorative	Oct. 5	12.00	100.00
†Romany. Reddish bronze	Med.	Decorative	Oct. 5	3.50	32.50
Ruth Cumming. Reddish bronze	Med.	Decorative	Oct. 8	3.50	32.50
†Mandarin. Coral salmon	Med.	Decorative	Oct. 10	3.50	32.50
Jasper Spoon. Straw yellow tubes with Jasper red spoons	Med.	Spoon	Oct. 10	3.50	32.50
†Apollo. Bronze red	Med.	Single	Oct. 12	3.50	32.50
†Ember. Orange bronze	Med.	Decorative	Oct. 15	3.50	32.50
Clara Jameson. Dark reddish bronze	Med.	Button	Oct. 15	3.50	32.50
Bonnibell. Light buff bronze	Short	Button	Oct. 15	3.50	32.50
†Indian Summer. Orange bronze	Med.	Decorative	Oct. 15	3.50	32.50

PINK

Dean Kay. Rose pink	Short	Semi-Double	Aug. 25	4.50	40.00
Amelia (Pink Cushion). Pale lavender	Short	Semi-Double	Sept. 10	3.50	32.50
Early Wonder. Lavender	Med.	Decorative	Sept. 15	4.50	40.00
†Roberta Copeland. Rose pink	Short	Semi-Double	Sept. 15	4.50	40.00
Jean Treadway. Light rose pink with dark center	Med.	Decorative	Oct. 1	3.50	32.50
Burgundy. Wine red	Med.	Decorative	Oct. 5	4.50	40.00
†The Moor. Amaranth crimson	Short	Decorative	Oct. 5	3.50	32.50
Rose Glow. Raspberry changing to opalescent rose	Short	Semi-double	Oct. 5	4.50	40.00
†Lavender Lady. Lavender	Med.	Decorative	Oct. 8	7.00	65.00
Orchid Spoon. Light pinkish lilac	Med.	Spoon	Oct. 10	3.50	32.50
†Symphony. Mauve coppery pink and lavender	Med.	Decorative	Oct. 12	3.50	32.50
Benoit. Deep lavender	Med.	Decorative	Oct. 15	3.50	32.50
Jewell. Lavender	Med.	Button	Oct. 15	3.50	32.50
Dark Pink Jewell. Deep lavender. Sport from Jewell	Med.	Button	Oct. 15	3.50	32.50

RED

Red Cushion. Amaranth red	Short	Semi-Double	Sept. 10	3.50	32.50
†Nancy Copeland. Spectrum red	Med.	Single	Sept. 25	3.50	32.50
Santa Claus. Spectrum red	Med.	Semi-Double	Oct. 5	4.50	40.00
†Caliph. Deed red	Med.	Decorative	Oct. 8	3.50	32.50
Natoma. Flame scarlet	Short	Decorative	Oct. 15	3.50	32.50

Garden Chrysanthemums are gaining in popularity, not only for landscape beauty, but also for cut flower purpose. The following varieties have been found adaptable for cutting:

YELLOW

September Gold
King Midas
Gleam O'Gold

WHITE

Jean Cumming

BRONZE RED

September Bronze
Burgundy

PINK

Lavender Lady
Mrs. P. S. Du Pont

The Use of Black Cloth Shading to Advance the Flowering Season

The varieties in the following list lend themselves satisfactorily to black cloth shading. The dates opposite the varieties are those found most satisfactory when the given blooming date is desired.

Use a good durable Black Cloth which has no less than 64 x 104 threads to the inch. Best results are obtained when the light intensity under the cloth when applied is 2 ft. candles or less. More light intensity than this will result in delayed flowering and unevenness in bloom.

The cloth should be applied at 5:00 P.M. and removed at 7 A.M. Shading is continued on pompons until the latest buds show color and most of the flowers are well developed. On the large flowering varieties shading can be discontinued after all flowering buds have attained the diameter of approximately half an inch.

Make sure that covering is complete on all benches shaded, as any leaks in light will cause uneven spots in the bench at flowering time.

It is not recommended that the large flowering varieties be grown outdoors under shade, unless proper protection is provided. Fall rains and wind storms play havoc with large flowers when not protected. Therefore, inside growing is suggested unless proper overhead protection is provided.

Best results are obtained when varieties of approximately the same blooming date are used for any one particular shading. When a spread in blooming dates is desired, repeated shading of a few varieties at weekly or ten-day intervals has proven more satisfactory than grouping a large number of varieties into any one shading. The shading dates given are those which have been found to be best for the respective varieties. We recommend benching six weeks prior to shading.

When only one branch is desired following a pinch, soft pinching should be practiced. Removal of the mere tip is best for examples when standards are pinched to avoid crown buds. Thus the final pinch on standards should be a soft pinch.

When several breaks are desired as in pinching of pompons, the pinch should be low enough to remove all of the soft growth. The lowest point at which the stem breaks off readily is about right for this type of pinch.

For strong stems a single pinch is best. With more pinches plants become successively weaker.

As an added suggestion, we would recommend the removal of black cloth after night fall to allow for a better circulation of air. This would prevent the accumulation of dampness and the unfavorable results that usually occur therefrom. This of course will cause considerable extra work as the cloth must be replaced before morning. We feel however, that as this will improve the growth and the foliage it will be well worth the effort. Perfection is never obtained without added effort.

Large Flowering Varieties

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM	
BLAZING GOLD	Yellow	May 3	May 31	June 28	} August-23-30	
SILVER SHEEN	White	May 3	May 31	June 28		
HILDA BERGEN	Bronze	May 3	May 31	June 28		
PINK CHIEF	Pink	May 10	June 7	July 5		
BLAZING GOLD	Yellow	May 10	June 7	July 5	} Aug. 30—Sept. 6	
SILVER SHEEN	White	May 10	June 7	July 5		
HILDA BERGEN	Bronze	May 10	June 7	July 5		
PINK CHIEF	Pink	May 17	June 14	July 12		
GOOD NEWS	Yellow	May 10	June 7	July 5	} September 6-13	
ALBATROSS	White	May 10	June 7	July 5		
DETROIT NEWS	Bronze	May 10	June 7	July 5		
ROSABELLA	Pink	May 10	June 7	July 5		
BLAZING GOLD	Yellow	May 17	June 14	July 12		
SILVER SHEEN	White	May 17	June 14	July 12		
HILDA BERGEN	Bronze	May 17	June 14	July 12		
PINK CHIEF	Pink	May 24	June 21	July 19		
GOOD NEWS	Yellow	May 17	June 14	July 12	} September 13-20	
ALBATROSS	White	May 17	June 14	July 12		
DETROIT NEWS	Bronze	May 17	June 14	July 12		
ROSABELLA	Pink	May 17	June 14	July 12		
GOOD NEWS	Yellow	May 24	June 21	July 19	} September 21-27	
ALBATROSS	White	May 24	June 21	July 19		
DETROIT NEWS	Bronze	May 24	June 21	July 19		
ROSABELLA	Pink	May 24	June 21	July 19		
INDIANAPOLIS WHITE	White	May 24	June 21	July 19	} Sept. 27—Oct. 4	
INDIANAPOLIS BRONZE	Bronze	May 24	June 21	July 19		
INDIANAPOLIS PINK	Pink	May 24	June 21	July 19		
INDIANAPOLIS YELLOW	Yellow	May 24	June 21	July 19		
GOOD NEWS	Yellow	May 31	June 28	July 26		
ALBATROSS	White	May 31	June 28	July 26		
DETROIT NEWS	Bronze	May 31	June 28	July 26		
ROSABELLA	Pink	May 31	June 28	July 26		
HONEY DEW	Yellow	May 31	June 28	July 26	} October 4-11	
YELLOW MEFO	Yellow	May 31	June 28	July 26		
MEFO	White	May 31	June 28	July 26		
INDIANAPOLIS WHITE	White	May 31	June 28	July 26		
INDIANAPOLIS BRONZE	Bronze	May 31	June 28	July 26		
INDIANAPOLIS PINK	Pink	May 31	June 28	July 26		
INDIANAPOLIS YELLOW	Yellow	May 31	June 28	July 26		
GOOD NEWS	Yellow	June 7	July 5	August 2		
ALBATROSS	White	June 7	July 5	August 2		
DETROIT NEWS	Bronze	June 7	July 5	August 2		
J. W. PRINCE	Pink	June 7	July 5	August 2		
MRS. DAVID ROY	Red	May 31	June 28	July 26		} October 11-18
HONEY DEW	Yellow	June 7	July 5	August 2		
YELLOW MEFO	Yellow	June 7	July 5	August 2		
MEFO	White	June 7	July 5	August 2		
INDIANAPOLIS WHITE	White	June 7	July 5	August 2		
INDIANAPOLIS BRONZE	Bronze	June 7	July 5	August 2		
INDIANAPOLIS PINK	Pink	June 7	July 5	August 2		
INDIANAPOLIS YELLOW	Yellow	June 7	July 5	August 2		
ORCHID QUEEN	Pink	June 7	July 5	August 2		

Large Flowering Varieties

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM
GOLDEN PEARSON	Yellow	June 7	July 5	August 2	October 17-25
MRS. DAVID ROY	Red	June 7	July 5	August 2	
HONEY DEW	Yellow	June 14	July 12	August 9	
YELLOW MEFO	Yellow	June 14	July 12	August 9	
INDIANAPOLIS YELLOW	Yellow	June 14	July 12	August 9	
INDIANAPOLIS WHITE	White	June 14	July 12	August 9	
MEFO	White	June 14	July 12	August 9	
INDIANAPOLIS BRONZE	Bronze	June 14	July 12	August 9	
INDIANAPOLIS PINK	Pink	June 14	July 12	August 9	
ORCHID QUEEN	Pink	June 14	July 12	August 9	

Pompons, Decorative, Single and Anemone Types

YELLOW IRENE	Yellow	May 3	May 24	June 21	August 9-16	
IRENE	White	May 3	May 24	June 21		
MINONG	White	May 3	May 24	June 21	August 16-23	
WHITE JEWELL	White	May 3	May 24	June 21		
JEWELL	Pink	May 3	May 24	June 21		
YELLOW IRENE	Yellow	May 10	May 31	June 28		
IRENE	White	May 10	May 31	June 28	August 23-30	
YELLOW DOT	Yellow	May 3	May 24	June 21		
MARY L. HALL	Yellow	May 3	May 24	June 21		
YELLOW DAISY	Yellow	May 3	May 24	June 21		
NUGGETS	Yellow	May 3	May 24	June 21		
MINONG	White	May 10	May 31	June 28		
WHITE JEWELL	White	May 10	May 31	June 28		
JEWELL	Pink	May 10	May 31	June 28		
PINK PEARL	Pink	May 10	May 31	June 28		
YELLOW DOT	Yellow	May 10	May 31	June 28		Aug. 30—Sept. 6
MARY L. HALL	Yellow	May 10	May 31	June 28		
YELLOW DAISY	Yellow	May 10	May 31	June 28		
NUGGETS	Yellow	May 10	May 31	June 28		
ISOBEL	Pink	May 10	May 31	June 28		
JESSIE	Pink	May 10	May 31	June 28		
MINONG	White	May 17	June 7	July 5		
WHITE JEWELL	White	May 17	June 7	July 5		
JEWELL	Pink	May 17	June 7	July 5		
PINK PEARL	Pink	May 17	June 7	July 5		
YELLOW DOT	Yellow	May 17	June 7	July 5	September 6-13	
MARY L. HALL	Yellow	May 17	June 7	July 5		
YELLOW DAISY	Yellow	May 17	June 7	July 5		
NUGGETS	Yellow	May 17	June 7	July 5		
SEA GULL	White	May 17	June 7	July 5		
*LITTLE AMERICA	White	May 17	June 7	July 5		
BLANCHE	White	May 17	June 7	July 5		
ISOBEL	Pink	May 17	June 7	July 5		
JESSIE	Pink	May 17	June 7	July 5		
ADELAIDE	Bronze	May 17	June 7	July 5		
FIREBIRD	Bronze	May 17	June 7	July 5		
YELLOW BUSHNELL	Yellow	May 17	June 7	July 5		September 13-20
YELLOW FELLOW	Yellow	May 17	June 7	July 5		
YELLOW NEW YORK	Yellow	May 17	June 7	July 5		
*HELIOS	Yellow	May 17	June 7	July 5		

* Good Disbudded.



Pompons, Decorative, Single and Anemone Types

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM	
*LITTLE AMERICA	White	May 17	June 7	July 5	September 13-20	
*WHITE FREIDA	White	May 17	June 7	July 5		
NAGONA	White	May 17	June 7	July 5		
CRYSTAL JEWELL	White	May 17	June 7	July 5		
REV. H. BUSHNELL	White	May 17	June 7	July 5		
BLANCHE	White	May 17	June 7	July 5		
FEZ	Bronze	May 17	June 7	July 5		
NEW YORK	Bronze	May 17	June 7	July 5		
ROBIN HOOD	Red	May 17	June 7	July 5		
*FREIDA	Pink	May 17	June 7	July 5		
SILVER TIPS	Pink	May 17	June 7	July 5		
MRS. M. G. BULKELEY	Pink	May 17	June 7	July 5		
YELLOW DOT	Yellow	May 24	June 14	July 12		
YELLOW ARCADIA	Yellow	May 24	June 14	July 12		
MARY L. HALL	Yellow	May 24	June 14	July 12		
YELLOW DAISY	Yellow	May 24	June 14	July 12		
NUGGETS	Yellow	May 24	June 14	July 12		
*GOLDEN HERALD	Yellow	May 24	June 14	July 12		
SEA GULL	White	May 24	June 14	July 12		
ROMAN BRONZE	Bronze	May 24	June 14	July 12		
ADELAIDE	Bronze	May 24	June 14	July 12		
FIREBIRD	Bronze	May 24	June 14	July 12		
OCTOBER BRONZE	Bronze	May 24	June 14	July 12		
*CLARA HOLFORD	Red	May 24	June 14	July 12		
ISOBEL	Pink	May 24	June 14	July 12		
JESSIE	Pink	May 24	June 14	July 12		
*BETTY ROSE	Pink	May 24	June 14	July 12		
PINK DOT	Pink	May 24	June 14	July 12		
CAPTAIN COOK	Pink	May 24	June 14	July 12		
OCTOBER PINK	Pink	May 24	June 14	July 12		
YELLOW BUSHNELL	Yellow	May 24	June 14	July 12		September 20-27
YELLOW FELLOW	Yellow	May 24	June 14	July 12		
YELLOW NEW YORK	Yellow	May 24	June 14	July 12		
*HELIOS	Yellow	May 24	June 14	July 12		
*LITTLE AMERICA	White	May 24	June 14	July 12		
*WHITE FREIDA	White	May 24	June 14	July 12		
NAGONA	White	May 24	June 14	July 12		
CRYSTAL JEWELL	White	May 24	June 14	July 12		
REV. H. BUSHNELL	White	May 24	June 14	July 12		
BLANCHE	White	May 24	June 14	July 12		
FEZ	Bronze	May 24	June 14	July 12		
NEW YORK	Bronze	May 24	June 14	July 12		
ROBIN HOOD	Red	May 24	June 14	July 12		
*FREIDA	Pink	May 24	June 14	July 12		
SILVER TIPS	Pink	May 24	June 14	July 12		
MRS. M. G. BULKELEY	Pink	May 24	June 14	July 12		
YELLOW DOT	Yellow	May 31	June 21	July 19		
YELLOW ARCADIA	Yellow	May 31	June 21	July 12		
MARY L. HALL	Yellow	May 31	June 21	July 19		
YELLOW DAISY	Yellow	May 31	June 21	July 19		
NUGGETS	Yellow	May 31	June 21	July 19		
*GOLDEN HERALD	White	May 31	June 21	July 19		

* Good Disbudded.

Pompons, Decorative, Single and Anemone Types

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM	
SEA GULL	White	May 31	June 21	July 19	September 20-27	
ROMAN BRONZE	Bronze	May 31	June 21	July 19		
ADELAIDE	Bronze	May 31	June 21	July 19		
FIREBIRD	Bronze	May 31	June 21	July 19		
OCTOBER BRONZE	Bronze	May 31	June 21	July 19		
*CLARA HOLFORD	Red	May 31	June 21	July 19		
ISOBEL	Pink	May 31	June 21	July 19		
JESSIE	Pink	May 31	June 21	July 19		
*BETTY ROSE	Pink	May 31	June 21	July 19		
PINK DOT	Pink	May 31	June 21	July 19		
CAPTAIN COOK	Pink	May 31	June 21	July 19		
OCTOBER PINK	Pink	May 31	June 21	July 19		
YELLOW BUSHNELL	Yellow	May 31	June 21	July 19		Sept. 27—Oct. 4
YELLOW FELLOW	Yellow	May 31	June 21	July 19		
YELLOW NEW YORK	Yellow	May 31	June 21	July 19		
*HELIOS	Yellow	May 31	June 21	July 19		
*LITTLE AMERICA	White	May 31	June 21	July 19		
*WHITE FREIDA	White	May 31	June 21	July 19		
NAGONA	White	May 31	June 21	July 19		
CRYSTAL JEWELL	White	May 31	June 21	July 19		
REV. H. BUSHNELL	White	May 31	June 21	July 19		
*BLANCHE	White	May 31	June 21	July 19		
FEZ	Bronze	May 31	June 21	July 19		
NEW YORK	Bronze	May 31	June 21	July 19		
*BRONZE FREIDA	Bronze	May 31	June 21	July 19		
PRINCETON	Bronze	May 31	June 21	July 19		
ROBIN HOOD	Red	May 31	June 21	July 19		
*FREIDA	Pink	May 31	June 21	July 19		
SILVER TIPS	Pink	May 31	June 21	July 19		
MRS. M. G. BULKELEY	Pink	May 31	June 21	July 19		
YELLOW DOT	Yellow	May 31	June 28	July 26	Sept. 27—Oct. 4	
YELLOW ARCADIA	Yellow	June 7	June 28	July 26		
MARY L. HALL	Yellow	May 31	June 28	July 26		
YELLOW DAISY	Yellow	May 31	June 28	July 26		
NUGGETS	Yellow	May 31	June 28	July 26		
*GOLDEN HERALD	Yellow	May 31	June 28	July 26		
SEA GULL	Yellow	May 31	June 28	July 26		
ROMAN BRONZE	Bronze	May 31	June 28	July 26		
ADELAIDE	Bronze	June 7	June 28	July 26		
FIREBIRD	Bronze	June 7	June 28	July 26		
OCTOBER BRONZE	Bronze	June 7	June 28	July 26		
*CLARA HOLFORD	Red	May 31	June 28	July 26		
RED DAISY	Red	May 31	June 28	July 26		
ISOBEL	Pink	May 31	June 28	July 26		
JESSIE	Pink	May 31	June 28	July 26		
*BETTY ROSE	Pink	May 31	June 28	July 26		
PINK DOT	Pink	May 31	June 28	July 26		
CAPTAIN COOK	Pink	May 31	June 28	July 26		
OCTOBER PINK	Pink	June 7	June 28	July 26		
YELLOW BUSHNELL	Yellow	May 31	June 28	July 26		October 4-11
YELLOW FELLOW	Yellow	May 31	June 28	July 26		
YELLOW NEW YORK	Yellow	May 31	June 28	July 26		

* Good Disbudded.

Pompons, Decorative, Single and Anemone Types

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM
*HELIOS	Yellow	May 31	June 28	July 26	} October 4-11
*LITTLE AMERICA	White	May 31	June 28	July 26	
*WHITE FREIDA	White	May 31	June 28	July 26	
NAGONA	White	June 7	June 28	July 26	
CRYSTAL JEWELL	White	May 31	June 28	July 26	
REV. H. BUSHNELL	White	May 31	June 28	July 26	
BLANCHE	White	May 31	June 28	July 26	
FEZ	Bronze	May 31	June 28	July 26	
NEW YORK	Bronze	May 31	June 28	July 26	
*BRONZE FREIDA	Bronze	June 7	June 28	July 26	
PRINCETON	Bronze	June 7	June 28	July 26	
ROBIN HOOD	Red	June 7	June 28	July 26	
RED PRINCETON	Red	June 7	June 28	July 26	
*FREIDA	Pink	June 7	June 28	July 26	
SILVER TIPS	Pink	June 7	June 28	July 26	
MRS. M. G. BULKELEY	Pink	June 7	June 28	July 26	
MASTERPIECE	Pink	June 7	June 28	July 26	
YELLOW DOT	Yellow	June 14	July 5	August 2	
YELLOW ARCADIA	Yellow	June 14	July 5	August 2	
MARY L. HALL	Yellow	June 14	July 5	August 2	
YELLOW DAISY	Yellow	June 14	July 5	August 2	
NUGGETS	Yellow	June 14	July 5	August 2	
*GOLDEN HERALD	Yellow	June 14	July 5	August 2	
SEA GULL	White	June 14	July 5	August 2	
ROMAN BRONZE	Bronze	June 14	July 5	August 2	
ADELAIDE	Bronze	June 14	July 5	August 2	
FIREBIRD	Bronze	June 14	July 5	August 2	
OCTOBER BRONZE	Bronze	June 14	July 5	August 2	
*CLARA HOLFORD	Red	June 14	July 5	August 2	
RED DAISY	Red	June 14	July 5	August 2	
ISOBEL	Pink	June 14	July 5	August 2	
JESSIE	Pink	June 14	July 5	August 2	
*BETTY ROSE	Pink	June 14	July 5	August 2	
PINK DOT	Pink	June 14	July 5	August 2	
CAPTAIN COOK	Pink	June 14	July 5	August 2	
OCTOBER PINK	Pink	June 14	July 5	August 2	
YELLOW BUSHNELL	Yellow	June 14	July 5	August 2	} October 11-18
YELLOW FELLOW	Yellow	June 14	July 5	August 2	
YELLOW NEW YORK	Yellow	June 14	July 5	August 2	
*HELIOS	Yellow	June 14	July 5	August 2	
*LITTLE AMERICA	White	June 14	July 5	August 2	
*WHITE FREIDA	White	June 14	July 5	August 2	
NAGONA	White	June 14	July 5	August 2	
CRYSTAL JEWELL	White	June 14	July 5	August 2	
REV. H. BUSHNELL	White	June 14	July 5	August 2	
BLANCHE	White	June 14	July 5	August 2	
FEZ	Bronze	June 14	July 5	August 2	
NEW YORK	Bronze	June 14	July 5	August 2	
*BRONZE FREIDA	Bronze	June 14	July 5	August 2	
PRINCETON	Bronze	June 14	July 5	August 2	
ROBIN HOOD	Red	June 14	July 5	August 2	
RED PRINCETON	Red	June 14	July 5	August 2	
*FREIDA	Pink	June 14	July 5	August 2	

* Good Disbudded.

Pompons, Decorative, Single and Anemone Types

VARIETY	COLOR	Date of Benching	Date of Last Pinch	SHADE	BLOOM
SILVER TIPS	Pink	June 14	July 5	August 2	} October 11-18
MRS. M. G. BULKELEY	Pink	June 14	July 5	August 2	
YELLOW DOT	Yellow	June 21	July 12	August 9	
YELLOW ARCADIA	Yellow	June 21	July 12	August 9	
MARY L. HALL	Yellow	June 21	July 12	August 9	
YELLOW DAISY	Yellow	June 21	July 12	August 9	
NUGGETS	Yellow	June 21	July 12	August 9	
*GOLDEN HERALD	Yellow	June 21	July 12	August 9	
SEA GULL	White	June 21	July 12	August 9	
ROMAN BRONZE	Bronze	June 28	July 12	August 9	
FIREBIRD	Bronze	June 28	July 12	August 9	
OCTOBER BRONZE	Bronze	June 28	July 12	August 9	
*CLARA HOLFORD	Red	June 28	July 12	August 9	
RED DAISY	Red	June 28	July 12	August 9	
ISOBEL	Pink	June 28	July 12	August 9	
JESSIE	Pink	June 28	July 12	August 9	
*BETTY ROSE	Pink	June 28	July 12	August 9	
PINK DOT	Pink	June 28	July 12	August 9	
CAPTAIN COOK	Pink	June 28	July 12	August 9	
YELLOW BUSHNELL	Yellow	June 28	July 12	August 9	
YELLOW FELLOW	Yellow	June 28	July 12	August 9	
YELLOW NEW YORK	Yellow	June 28	July 12	August 9	
*HELIOS	Yellow	June 28	July 12	August 9	
*LITTLE AMERICA	White	June 28	July 12	August 9	
*WHITE FREIDA	White	June 28	July 12	August 9	
CRYSTAL JEWELL	White	June 28	July 12	August 9	
REV. H. BUSHNELL	White	June 28	July 12	August 9	
BLANCHE	White	June 28	July 12	August 9	
FEZ	Bronze	June 28	July 12	August 9	
NEW YORK	Bronze	June 28	July 12	August 9	
*BRONZE FREIDA	Bronze	June 28	July 12	August 9	
PRINCETON	Bronze	June 28	July 12	August 9	
ROBIN HOOD	Red	June 28	July 12	August 9	
RED PRINCETON	Red	June 28	July 12	August 9	
*FREIDA	Pink	June 28	July 12	August 9	
SILVER TIPS	Pink	June 28	July 12	August 9	
MRS. M. G. BULKELEY	Pink	June 28	July 12	August 9	
MASTERPIECE	Pink	June 28	July 12	August 9	
YELLOW DOT	Yellow	July 5	July 17	August 16	
YELLOW ARCADIA	Yellow	July 5	July 17	August 9	
MARY L. HALL	Yellow	July 5	July 17	August 16	
YELLOW DAISY	Yellow	July 5	July 17	August 16	
NUGGETS	Yellow	July 5	July 17	August 16	
*GOLDEN HERALD	Yellow	July 5	July 17	August 16	
SEA GULL	White	July 5	July 17	August 16	
ROMAN BRONZE	Bronze	July 5	July 17	August 16	
*CLARA HOLFORD	Red	July 5	July 17	August 16	
RED DAISY	Red	July 5	July 17	August 16	
ISOBEL	Pink	July 5	July 17	August 16	
JESSIE	Pink	July 5	July 17	August 16	
*BETTY ROSE	Pink	July 5	July 17	August 16	
PINK DOT	Pink	July 5	July 17	August 16	
CAPTAIN COOK	Pink	July 5	July 17	August 16	
OCTOBER PINK	Pink	July 5	July 17	August 16	

* Good Disbudded.

To Delay Flowering by the Use of Artificial Light

For this purpose select the better mid season and late varieties and grow normally. Disbuds and standards are more profitable than pompons, additional light reduces the number of buds produced on each spray reducing production. Planting date may be several weeks later than when no lights are used. Pinch all varieties late to avoid tendency for crown buds.

Light with 40 watt lamps using tin reflectors hung at intervals of four feet over the bench. Three to ten foot candles are effective and economical.

Your local lighting expert will explain these terms if you are not familiar with them.

Start lights no later than August 10th. It is very important that lights are started before bud differentiation. Starting after this date may cause malformed flowers and long necks.

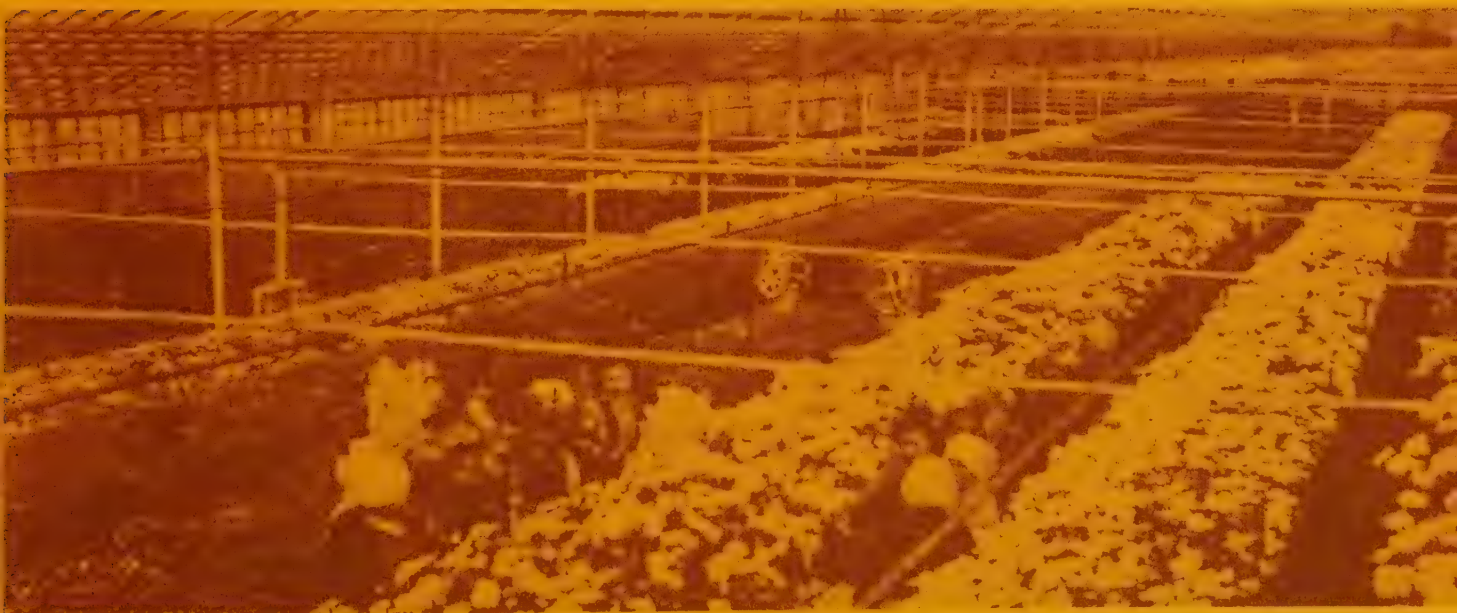
Turn lights on at dusk and continue lighting three hours every evening or light for 60 minutes each night at midnight. Treat each night until you have treated $\frac{3}{4}$ as many nights as you wish to delay flowering. In other words, for twenty days if you wish a thirty day delay in flowering.

Take the first bud showing after light treatment is stopped.

Pinch pompons the last time 30 days before light treatment is discontinued.

Grow at night temperature of not less than 50 degrees where possible and consistent with local weather conditions. Cooler temperature will induce blindness.

Be careful that the lights from the bench treated does not light a bench nearby that is not treated. This will cause part of the bench not under treatment to be delayed in flowering and consequently upset growing plans for bench not under treatment.



Our interest in you and your crops by no means ends with the sale. We are more than anxious to have the materials sold you grow and prove profitable. For this reason we have inaugurated suggestion service. If we are able to help you we shall be more than repaid.

Pot Plant Chrysanthemum Culture

Well grown short pot plants of Chrysanthemums have been finding a ready market in various sections of the country. We feel that many growers have been neglecting this valuable Fall potted plant. In many cases, poor attempts have been made in growing this plant and we offer the following suggestions for your consideration:

VARIETIES—The varieties best suited to pot culture are those which lateral freely and have a medium to low growing habit. A variety whose laterals tend to spread is superior to one with a more upright growth. Good examples are: Bonnaffon De Luxe and Queen of Pinks.

PLANTING—Cuttings may be planted into 2½" pots in May and later shifted into the larger pot for finishing. If this is done care must be used so as not to get the plants hardened too much before shifting. A more efficient and easier way is to set the large pots on the bench, fill them with potting soil and plant the cuttings directly into the finishing pots.

Three Cuttings should be planted in a six inch pot. While four may be required for a large pot.

WATERING AND HUMIDITY—After planting water **thoroughly** to set the soil around the plant roots. Repeat this type of watering when the soil gets on the dry side. Organic matter in the soil will facilitate watering and will tend to avoid extreme fluctuations in moisture supply. Keep humidity in house by wetting down bench and walks. Do not sprinkle foliage of plants.

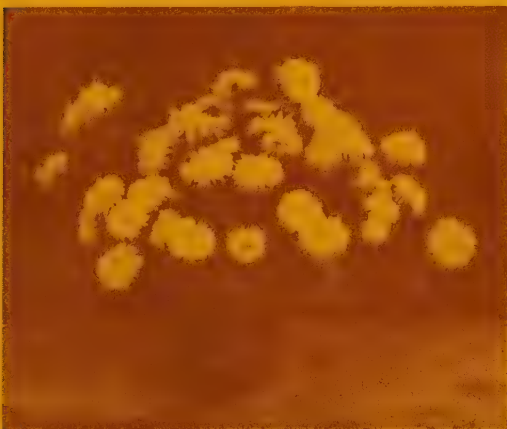
PINCHING—Three pinches are sufficient for a good short compact pot plant. The first pinch should be approximately 15 days after planting. The second pinch about 30 days after planting and the third and last pinch as listed on the chart. (See pages 29-31). Some of the varieties listed grow taller than others, however by observing the last pinching date all the varieties listed should finish reasonably uniform in height. A hard pinch is suggested when the last pinch is delayed until after shading. For example: Yellow Beauty when shaded July 1st and pinched July 11th.

FERTILIZING—The best program is to have regular soil tests and feed as need is indicated by these tests. In absence of these facilities, and starting with a relatively fertile potting soil, several light feedings should be made with a complete fertilizer such as Electra. This can safely be used at the rate of 1 Teaspoonful per 6" pot. This should be applied when soil is moist and never on a dry soil.

The foliage should retain a bright green lustre throughout the life of the plant, and the lower leaves should never be allowed to lose their color and turn to a light green due to low fertility. A strong well grown pot plant is a well fed plant.

DISEASES AND INSECTS—Pot plants should be sprayed regularly with one of the rotenone insecticides for control of red spider. Pyrethrum sprays or tartar emetic will control thrip and leaf tier. If plants are to be grown outdoors before final potting the foliage should be kept covered with one of the insoluble copper sprays such as Bordeaux Mixture or Copper-Compound-A to prevent leaf spot. If this is not done considerable foliage loss may result during wet cool weather.

SHADING—Same procedure as for cut flowers. Black cloth should be new or in best of condition for very early shadings to avoid delayed and uneven blooming. When possible take cloth off at night, replacing before daylight.



DISBUDDING

WITH POMPONS—Remove center bud except on the button types. This gives better spacing to the remaining flowers. Also the center bud generally matures earlier than the surrounding buds, giving the appearance of irregular blooming and premature aging. Remove this bud as early as convenient.

WITH DISBUDS—Disbudding must be done early, late disbudding results in small flowers and weak and elongated stems directly below the flowers.

HEIGHT—By following our directions pompons grown in 5½" or 6" pots will be 11" to 13" high. Disbuds will grow 14" to 17" above the top of the pot.

Varieties Disbudded

YELLOW

Plant	Last Pinch	Shade	Approx. Date of Bloom
SMITH'S SUPERLATIVE			
May 15	July 6	July 1	September 10
June 1	July 20	July 15	September 25
June 15	August 6	August 1	October 10
July 1	August 24	No Shade	October 25
GOLDEN GLORY			
May 15	July 6	July 1	September 5
June 1	July 20	July 15	September 25
June 15	August 6	August 1	October 5
July 1	August 24	No Shade	November 1
LILA LILLY			
May 15	July 7	July 1	September 15
June 1	July 20	July 15	September 30
June 15	August 6	August 1	October 15
July 1	August 29	No Shade	November 10
CARDONIA			
May 15	July 4	July 1	September 15
June 1	July 18	July 15	October 8
June 15	August 4	August 1	October 20
July 1	August 29	No Shade	November 10
YELLOW BEAUTY			
May 15	July 11	July 1	October 1
June 1	July 25	July 15	October 15
June 15	August 11	August 1	October 25
July 1	August 29	No Shade	November 10
BRIGHT LIGHT			
May 15	July 11	July 1	September 25
June 1	July 25	July 15	October 8
June 15	August 11	August 1	October 25
July 1	September 3	No Shade	November 20
BONNAFFON DE LUXE			
May 15	July 1	July 1	September 28
June 1	July 15	July 15	October 10
June 15	August 1	August 1	October 25
July 1	September 3	No Shade	November 20
CHRISTINA			
May 15	July 4	July 1	September 1
June 1	July 18	July 15	September 15
June 15	August 4	August 1	October 1
July 1	August 24	No Shade	October 20
GRACELAND			
May 15	July 11	July 1	September 10
June 1	July 25	July 15	September 25
June 15	August 11	August 1	October 10
July 1	August 24	No Shade	October 25
RICHARD MANDEL			
May 15	July 4	July 1	September 10
June 1	July 18	July 15	September 25
June 15	August 4	August 1	October 10
July 1	August 29	No Shade	November 10
LITTLE AMERICA			
May 15	July 6	July 1	September 10
June 1	July 20	July 15	September 25
June 15	August 6	August 1	October 10
July 1	August 29	No Shade	November 10

WHITE

BRONZE

Plant	Last Pinch	Shade	Approx. Date of Bloom
THORINA			
May 15	June 30	July 1	August 25
June 1	July 14	July 15	September 5
June 15	July 31	August 1	September 25
July 1	August 24	No Shade	October 20
ALAMEDA			
May 15	July 6	July 1	September 5
June 1	July 20	July 15	September 20
June 15	August 6	August 1	October 5
July 1	August 29	No Shade	October 25
APRICOT QUEEN			
May 15	July 11	July 1	September 1
June 1	July 25	July 15	September 15
June 15	August 11	August 1	October 1
July 1	August 29	No Shade	November 10
GLITTERS			
May 15	July 11	July 1	September 1
June 1	July 25	July 15	September 15
June 15	August 11	August 1	October 1
July 1	August 29	No Shade	November 1
GYPSY			
May 15	July 1	July 1	September 20
June 1	July 15	July 15	October 5
June 15	August 1	August 1	October 20
July 1	August 29	No Shade	November 15

PINK

BENOIT			
May 15	July 1	July 1	August 25
June 1	July 15	July 15	September 10
June 15	August 1	August 1	September 25
July 1	August 24	No Shade	October 15
ROSE MANDEL			
May 15	July 1	July 1	August 25
June 1	July 15	July 15	September 10
June 15	August 1	August 1	September 25
July 1	August 24	No Shade	October 20
ROSE CHOCHARD			
May 15	July 1	July 1	September 1
June 1	July 15	July 15	September 15
June 15	August 1	August 1	October 1
July 1	August 24	No Shade	October 20
THYRA			
May 15	July 10	July 1	September 20
June 1	August 25	July 15	October 5
June 15	August 10	August 1	October 15
July 1	August 29	No Shade	November 10
QUEEN OF PINKS			
May 15	July 1	July 1	September 10
June 1	July 15	July 15	September 25
June 15	August 1	August 1	October 10
July 1	August 29	No Shade	November 10
ETHRELDA			
May 15	July 1	July 1	September 5
June 1	July 15	July 15	September 20
June 15	August 1	August 1	October 5
July 1	August 29	No Shade	November 12



Varieties Not Disbudded

Plant	Last Pinch	Shade	Approx. Date of Bloom
GOLDEN SPRAY			
May 15	July 16	July 1	September 1
June 1	July 30	July 15	September 20
June 15	August 16	August 1	October 5
July 1	September 4	No Shade	October 5

Plant	Last Pinch	Shade	Approx. Date of Bloom
RODELL IMP.			
May 15	July 1	July 1	August 28
June 1	July 15	July 15	September 15
June 15	August 1	August 1	September 28
July 1	August 24	No Shade	October 20

Plant	Last Pinch	Shade	Approx. Date of Bloom
NUGGETS			
May 15	July 1	July 1	September 5
June 1	July 15	July 15	September 25
June 15	August 1	August 1	October 5
July 1	August 24	No Shade	October 25

Plant	Last Pinch	Shade	Approx. Date of Bloom
JUDITH ANDERSON			
May 15	July 6	July 1	September 10
June 1	July 23	July 15	September 25
June 15	August 6	August 1	October 10
July 1	August 24	No Shade	October 25

Plant	Last Pinch	Shade	Approx. Date of Bloom
SUNRAY			
May 15	July 1	July 1	September 5
June 1	July 15	July 15	September 20
June 15	August 1	August 1	October 5
July 1	September 3	No Shade	November 15

Plant	Last Pinch	Shade	Approx. Date of Bloom
SUNSHINE			
May 15	July 1	July 1	September 20
June 1	July 15	July 15	October 10
June 15	August 10	August 1	October 25
July 1	September 8	No Shade	November 25

WHITE

Plant	Last Pinch	Shade	Approx. Date of Bloom
WHITE JEWEL			
May 15	July 1	July 1	September 1
June 1	July 15	July 15	September 15
June 15	August 1	August 1	October 1
July 1	August 24	No Shade	October 15

Plant	Last Pinch	Shade	Approx. Date of Bloom
IRENE			
May 15	July 1	July 1	September 1
June 1	July 15	July 15	September 15
June 15	August 1	August 1	October 1
July 1	August 24	No Shade	October 18

Plant	Last Pinch	Shade	Approx. Date of Bloom
MARY PICKFORD			
May 15	July 1	July 1	September 10
June 1	July 15	July 15	September 25
June 15	August 1	August 1	October 10
July 1	August 26	No Shade	November 1

Plant	Last Pinch	Shade	Approx. Date of Bloom
WHITE IZOLA			
May 15	July 8	July 1	September 10
June 1	July 23	July 15	September 25
June 15	August 8	August 1	October 10
July 1	August 24	No Shade	November 1

BRONZE

Plant	Last Pinch	Shade	Approx. Date of Bloom
BONNIBELL			
May 15	July 1	July 1	August 30
June 1	July 15	July 15	September 15
June 15	August 1	August 1	September 30
July 1	August 24	No Shade	October 15

Plant	Last Pinch	Shade	Approx. Date of Bloom
THORINA			
May 15	June 3	July 1	August 28
June 1	July 14	July 15	September 10
June 15	July 31	August 1	September 25
July 1	August 24	No Shade	October 20

Plant	Last Pinch	Shade	Approx. Date of Bloom
GYPSY			
May 15	July 1	July 1	September 20
June 1	July 15	July 15	October 5
June 15	August 1	August 1	October 20
July 1	August 29	No Shade	November 15

Plant	Last Pinch	Shade	Approx. Date of Bloom
MRS. BEU			
May 15	July 1	July 1	September 20
June 1	July 15	July 15	October 10
June 15	August 10	August 1	October 25
July 1	September 8	No Shade	November 25

PINK

Plant	Last Pinch	Shade	Approx. Date of Bloom
JEWELL			
May 15	July 1	July 1	August 30
June 1	July 15	July 15	September 15
June 15	August 1	August 1	September 30
July 1	August 24	No Shade	October 15

Plant	Last Pinch	Shade	Approx. Date of Bloom
PERSIAN ROSE			
May 15	July 1	July 1	September 5
June 1	July 15	July 15	September 25
June 15	August 1	August 1	October 5
July 1	August 24	No Shade	October 23

Plant	Last Pinch	Shade	Approx. Date of Bloom
ETHREDA			
May 15	July 1	July 1	September 5
June 1	July 15	July 15	September 20
June 15	August 1	August 1	October 5
July 1	August 29	No Shade	November 10

Plant	Last Pinch	Shade	Approx. Date of Bloom
THYRA			
May 15	July 10	July 1	September 20
June 1	July 25	July 15	October 5
June 15	August 10	August 1	October 15
July 1	August 29	No Shade	November 10

Disbudded Sprays

Good Chrysanthemums result from the careful and thorough practice of the basic principles of plant growth, plus the acknowledgement of certain differences in the nature of various varieties. Growing disbudded sprays is a modification in culture which is very much worthwhile.

The procedure in growing disbudded sprays, is to wait until the crown bud forms, then remove all vegetative shoots but three. Later when terminal buds appear dis-bud each shoot similar to the normal disbudding of standards. When the blooms mature there are three flowers in each spray. In singles and anemones the size of the blooms will be a trifle smaller in size than when they are grown as one flower per stem.

Bunch disbudded spray pompons similar to the way used in bunching the regular grown pompons.

Varieties which may be grown as Disbudded Sprays are as follows:—

YELLOW

GOLDEN HERALD
YELLOW DOTY
HELIOS
SUSANNE MILLER
YELLOW ROLINDA
GOLDSMITH
CITRUS QUEEN
GOLDEN JANE
GLEAM
YELLOW SUPREME

BRONZE

BRONZE DOTY
MASON'S BRONZE
BRONZE TUXEDO
APRICOT VALENCIA
BRONZE MASTERPIECE
MELBA

BRONZE FREIDA
JANE
ROLINDA
BRONZE SUPREME

WHITE

SILVER BALL
GRACELAND
WHITE DOTY
WHITE ANEMONE
SHASTA
LITTLE AMERICA
WHITE FREIDA
WHITE NORMA
WHITE SUPREME

RED

RED ROVER
CLARA HOLFORD
MASON'S RED

THE TITAN
RED MELBA
RED ROLINDA
CRIMSON GLOW
CARNELIA

PINK

BETTY ROSE
LILLIAN DOTY
THYRA
ENCHANTRESS
TUXEDO
MASTERPIECE
FREIDA
DARK PINK FREIDA
NORMA
LONG ISLAND BEAUTY
VALENCIA
DARK PINK VALENCIA
DARK PINK SUPREME



Goldsmith after disbudding



Goldsmith natural spray

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Golden Surprise



Seafoam



Pixie



Carillon

FOR COMPLETE DESCRIPTION OF THE
NOVELTIES PICTURED ABOVE SEE PAGES 5 AND 6

For important cultural pointers and shading information
see pages 1 to 4 and 20 to 30.